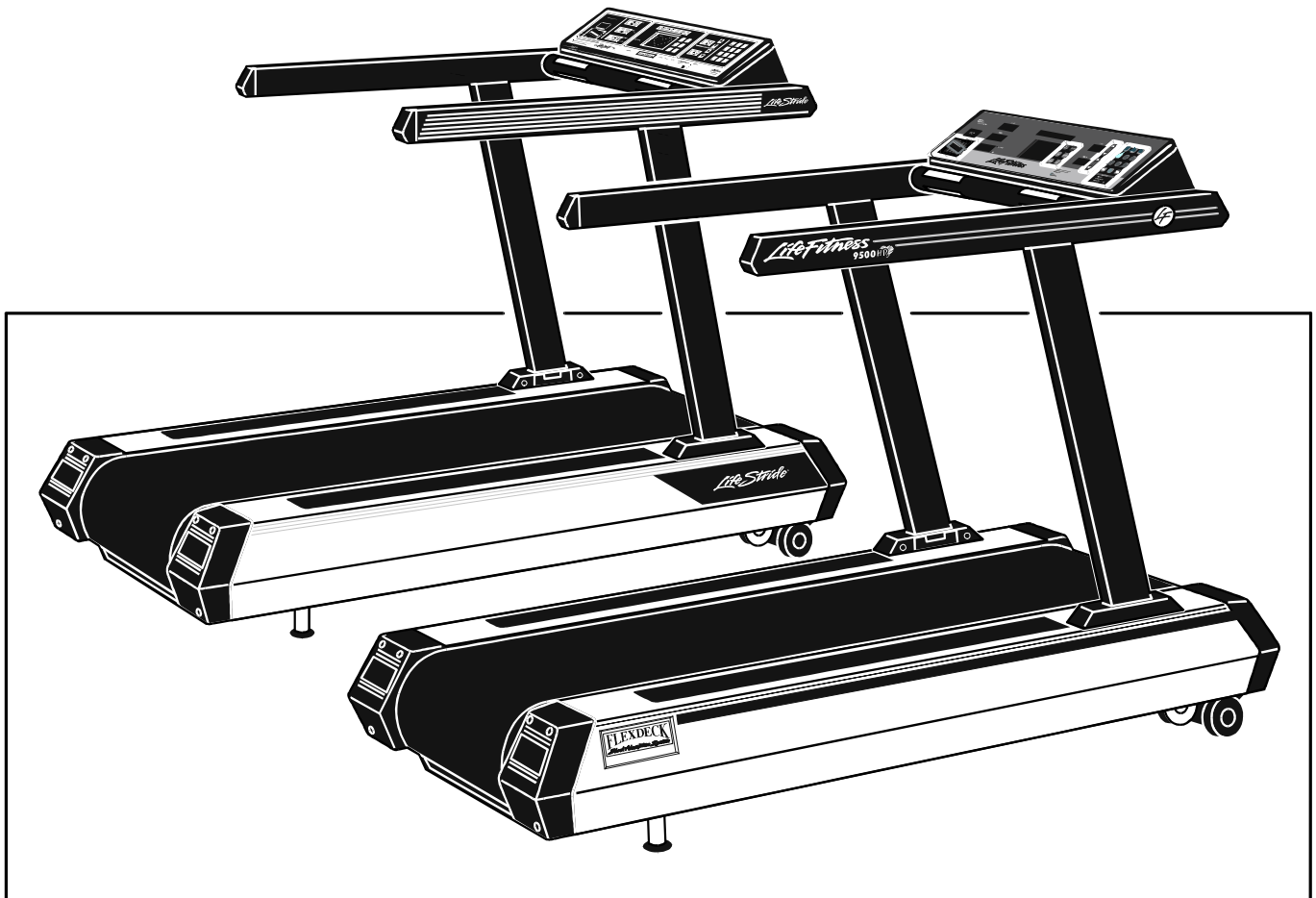


# *LifeFitness*

***Model 9500 Series HR and Telemetry Equipped Treadmills***



**Customer Support Services**  
**SERVICE MANUAL**

**FCC Warning - Possible Radio/Television Interference**

NOTE: This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the space between the equipment and the receiver.
- Connect the equipment to an outlet on a different circuit than that to which the receiver is connected.
- Consult an exercise equipment dealer or an experienced radio/TV technician for help.





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U.S. Patent Numbers 3,767,195 and 4,358,105.

**M051-00K26-B201**

**4-96**

## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

# **INTRODUCTION**

## **HOW TO USE THIS SERVICE MANUAL**

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In the unlikely event that an operating problem may occur with your Life Fitness 9500HR Treadmill, this Service Manual will instruct and guide you or your Maintenance Engineer on the quickest, most efficient manner in which to approach the situation. This Service Manual has been separated into a total of Five Sections for quick reference:

- ☐ Introduction
- ☐ Table of Contents
- SECTION I**
  - ☐ Troubleshooting Guides
- SECTION II**
  - ☐ Diagnostics
- SECTION III**
  - ☐ Model 9500HR "How To..."
- SECTION IV**
  - ☐ Parts Identification
  - ☐ Wiring Block Diagrams
- SECTION V**
  - ☐ Model Identification and Serial Number
  - ☐ Preventive Maintenance Schedule
  - ☐ Estimated Repair Times
  - ☐ Communicating by Fax

If an operating problem should arise, turn to the TROUBLESHOOTING GUIDES and attempt to isolate what is causing the malfunction. The GUIDES are listed by symptoms and follow with suggestions as to the most probable cause of the problem.

Once you have pinpointed the source of the problem, turn to the appropriate "How To..." section according to which model treadmill you have and review the proper procedures for removing or replacing a part. The "How To..." sections are organized by replaceable part (or assembly) name. If you do not have the part you need in stock, refer to Section IV to identify the proper part name and number.

To order a part call Life Fitness After Market Services any Monday through Friday from 8:00 AM to 6:00 PM (C.S.T.). When you place a call, in order to speed our response to your particular situation, please have the following information available for the customer service phone technician who will be prepared to assist you:

1. The Treadmill model type (9500HR)
2. The serial number
3. The symptom of the problem you are experiencing
4. The part name and number you need to order

When you receive your order, review the appropriate "How To..." section and follow the step by step procedures designed to help you install the part quickly and correctly. There is an Estimated Repair Time schedule in Section V which will help you to forecast how long your machine will be down.

If you have any questions or comments please phone, mail, or fax us at one of the numbers listed below.



### **CUSTOMER SUPPORT SERVICES**

10601 Belmont Avenue, Franklin Park, IL 60131  
( 800 ) 351-3737 Toll Free or ( 847 ) 451-0036  
( 847 ) 288-3702 FAX

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**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: "Slowdown". Belt slips during footfall or display reads "Press Start to Resume", or "Note Max. Speed Is Reduced To".**

**SECTION I**

<b>Malfunction</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
<b>Maximum speed is reduced</b>	User is exceeding desired speed for the striding belt.	<input type="checkbox"/> Inform user on proper usage of treadmill (See Operation Manual)
	Unit has 3000 hours or 15000 miles (24,150km) or more.	<input type="checkbox"/> Inspect belt and deck for excessive wear. Replace any defective part.
<b>Belt slips during footfall</b>	Belt Deck Malfunction: <ul style="list-style-type: none"> <li>• Deck laminate is worn through.</li> <li>• Underside of striding belt is glazed over (hard, glossy).</li> <li>• There is a large build-up of wax, excessive wax fills fingernails when scratching underside of belt.</li> </ul>	<input type="checkbox"/> Replace both deck and belt (Use unused side of deck if available). Update service menu.(See Diagnostics Menu)
	Wax system malfunction.	<input type="checkbox"/> Check for a spray pattern between 8" (203.2mm) and 16" (406.4mm) <input type="checkbox"/> Check for a clean nozzle <input type="checkbox"/> Check for any kinked hose lines <input type="checkbox"/> Is the wax bag empty? <input type="checkbox"/> Has there been a leak in the wax system? <input type="checkbox"/> Is there any contamination in the wax? <input type="checkbox"/> Has anyone used the manual waxing mode to wax the belt?
<b>Belt slips during footfall</b>	Insufficient power source.	<input type="checkbox"/> Plug treadmill into a dedicated 120V, 20 amp circuit. (See Operations Manual)
	Incorrect tension of the striding belt.	<input type="checkbox"/> Perform a stall test. Retension as necessary. <input type="checkbox"/> Inspect belt and deck for excessive wear. Replace any defective part.
	Incorrect tension on the rear roller belt or drive belt.	<input type="checkbox"/> Retension rear roller belt or drive belt (See "How To...").  <b>Call Life Fitness Customer Support Services</b> <b>1-847-451-0036 or 1-800-351-3737</b>



**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Display Will Not Program Password or Locked In Password Mode**

<b>Malfunction</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
<b>Display will not accept password entries</b>	Incorrect entries.	<input type="checkbox"/> Only 3 digits are acceptable as a password (entries 1 thru 999) if Lifecenter is not installed.
	Pressing <b>0</b> as an entry.	<input type="checkbox"/> Pressing <b>0</b> before pressing other numeric keys will not be allowed as an entry.
	Incorrect password entered.	<input type="checkbox"/> Press <b>CLEAR</b> twice. <input type="checkbox"/> Press <b>9500</b> , ( <b>MANUAL</b> , <b>9500</b> if connected to Lifecenter), <b>ENTER</b> for access to password mode. <input type="checkbox"/> Enter new password. A valid password is 3 digits: 1 thru 999. <input type="checkbox"/> Press <b>ENTER</b> .
<b>Locked in password mode</b>	Incorrect entries.	<input type="checkbox"/> Press <b>CLEAR</b> twice. <input type="checkbox"/> Press <b>9500</b> , ( <b>MANUAL</b> , <b>9500</b> if connected to Lifecenter), <b>ENTER</b> for access to password mode. <input type="checkbox"/> Press <b>0</b> then <b>CLEAR</b> to reset password mode. <input type="checkbox"/> Press <b>ENTER</b> .
<b>Display by-passes password</b>	Connected to Lifecenter.	<input type="checkbox"/> Press <b>CLEAR</b> twice. <input type="checkbox"/> Press <b>MANUAL</b> , <b>9500</b> , <b>ENTER</b> for access to password mode.
		<b>Call Life Fitness            Customer Support Services            1-847-451-0036 or 1-800-351-3737</b>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Noisy Treadmill**

**SECTION I**

<b>Malfunction</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
<b>Knocking sound at rear of machine</b>	Faulty rear roller bearings.	<input type="checkbox"/> Replace rear roller assembly.
	Faulty drive motor bearings.	<input type="checkbox"/> Replace drive motor assembly.
<b>Knocking sound coming from deck</b>	Worn deck corner rubber mounts.	<input type="checkbox"/> Replace as necessary any corner rubber mount.
	Loose deck bolts.	<input type="checkbox"/> Tighten any loose deck bolts.
<b>Rubbing sound from underneath machine</b>	Foreign objects may be stuck underneath the machine.	<input type="checkbox"/> Inspect underneath belt and machine and remove any debris or accumulation on debris brush.
	Rear tinsel guard may be bent.	<input type="checkbox"/> Bend guard away from belt, or replace if damaged.
	Front roller guard may be bent, broken or not secured.	<input type="checkbox"/> Reattach or replace guard.
<b>Squeaking noise at footfall</b>	Loose deck.	<input type="checkbox"/> Tighten deck screws.
	Life Spring may be misaligned.	<input type="checkbox"/> Reposition or replace old style deck stiffener.
	Drive motor belt may be worn or damaged.	<input type="checkbox"/> Replace drive motor belt.
	Drive motor belt tensioner pin may be squeaking.	<input type="checkbox"/> Spray pin with lubricant.
	Faulty lift motor.	<input type="checkbox"/> Lubricate lift actuator with a dry lubricant
<b>Loud "groaning" sound heard from front of machine while elevating</b>		<input type="checkbox"/> Replace lift actuator if noise continues.
	High deck and belt friction.	<input type="checkbox"/> Refer to slowdown section.
<b>Loud "groaning" on footfall</b>	Rear Roller belt may be under tensioned or misaligned.	<input type="checkbox"/> Inspect the Rear Roller belt for proper tension. Retension or realign as necessary.
		<b>Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737</b>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

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**Symptom: Display Does Not Illuminate or Respond To Input**

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<b>Malfunction</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
<b>Display does not illuminate when machine is powered on.</b>	Insufficient power source.	<input type="checkbox"/> Plug treadmill into a dedicated 120V, 20 amp circuit  <input type="checkbox"/> Turn power off for 30 seconds. Turn power ON and within 30 seconds press "9-0-9" on the keypad.
	Loose connection at display console or control board.	<input type="checkbox"/> Check all electrical connections.
	Pinched wire harness at the base of the left handrail.	<input type="checkbox"/> Secure connections at display console and control board.
	Faulty display console.	<input type="checkbox"/> Reinstall Display console and handrail , inspect for pinched harnesses. Replace harness if damaged.
	Faulty CPU control board.	<input type="checkbox"/> Switch display console with another Life Fitness model 9500HR treadmill if available.  <input type="checkbox"/> Replace display console.  <input type="checkbox"/> Switch CPU control board with another Life Fitness model 9500HR treadmill if available. After troubleshooting, replace CPU board to original unit.  <input type="checkbox"/> Replace CPU control board.
		<b>Call Life Fitness</b> <b>Customer Support Services</b> <b>1-847-451-0036 or 1-800-351-3737</b>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Unit Resets Randomly**

**SECTION I**

Malfunction	Probable Cause	Corrective Action
Unit resets randomly	<p>Insufficient power source.</p> <p>Line cord improperly seated in electrical outlet.</p> <p>Damaged line cord.</p> <p>Towel or magazine may be making contact with stop switch while user is running.</p> <p>Pinched wire harness at the base of the left handrail.</p> <p>Stop switch cover is missing.</p> <p>Stop switch is activated with very light pressure or returns very slowly after being pressed.</p> <p>Loose connection at stop switch or display faceplate.</p> <p>Loose connection at console assembly.</p> <p>Case ground on treadmill is open.</p> <p>Stop switch relay connection is faulty.</p> <p>Loose connections at CPU control board and display.</p>	<p><input type="checkbox"/> Plug treadmill into a dedicated 120V, 20 amp circuit.</p> <p><input type="checkbox"/> Inspect power connection at outlet and at machine for proper contact.</p> <p><input type="checkbox"/> Replace line cord.</p> <p><input type="checkbox"/> Move possible obstructions off display console and handlebar.</p> <p><input type="checkbox"/> Reinstall Display console and handrail, inspect for pinched harnesses. Replace harness if damaged.</p> <p><input type="checkbox"/> Replace stop switch.</p> <p><input type="checkbox"/> Replace stop switch.</p> <p><input type="checkbox"/> Secure connections.</p> <p><input type="checkbox"/> Secure connections.</p> <p><input type="checkbox"/> Check contact points for proper ground connections (Contact After Market Services for procedure instructions).</p> <p><input type="checkbox"/> Replace stop switch.</p> <p><input type="checkbox"/> Secure connections at CPU control board and display.</p> <p><b>Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737</b></p>

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### TROUBLESHOOTING GUIDE

## Symptom: No Power

Malfunction	Probable Cause	Corrective Action
No Power	On/Off switch.	<input type="checkbox"/> Check that the unit is turned on?
	Insufficient power source.	<input type="checkbox"/> Plug treadmill into a dedicated 120V, 20 amp circuit. <input type="checkbox"/> Use a volt meter to verify power at outlet.
	Line cord improperly seated in electrical outlet.	<input type="checkbox"/> Inspect power connection at wall outlet and at machine for proper contact.
	Damaged line cord.	<input type="checkbox"/> Replace line cord.
	Faulty display console.	<input type="checkbox"/> Turn power off for 30 seconds. Turn power on and within 30 seconds of turning the unit on, press " 9 - 0 - 9" Enter on the keypad. This will test just the display console by itself.
	Faulty CPU.	<input type="checkbox"/> Perform test above. If display console does not turn on, switch CPU board with another 9500HR treadmill.
	Pinched wire harness at the base of the left handrail.	<input type="checkbox"/> Reinstall display console and handrail , inspect for pinched harnesses. Replace harness if damaged.
	Power module: <ul style="list-style-type: none"> <li>• Circuit breakers</li> <li>• On/Off switch</li> </ul>	<input type="checkbox"/> Check connector P4 on CPU board for 120vac.(Red Hot--Green/Yellow--Ground) <input type="checkbox"/> Test circuit breaker with ohm meter and tap on white button in center of breaker to see if ohms drop. Replace if defective. <input type="checkbox"/> Cycle power on and off several times to verify ON/Off switch.
	Interrupted circuit.	<input type="checkbox"/> Reset circuit breaker on treadmill. Replace if necessary. <input type="checkbox"/> Check all electrical connections.
	Faulty display console.	<input type="checkbox"/> Unplug harness connector from display console. Power unit ON. If breaker is OK, replace display console. If breaker pops, switch CPU board with another 9500HR treadmill.
<p><b>Call Life Fitness</b>  <b>Customer Support Services</b>  <b>1-847-451-0036 or 1-800-351-3737</b></p>		

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Wax Will Not Fill Properly**

**SECTION I**

Malfunction	Probable Cause	Corrective Action
Wax will not fill	Fill valve in kit has crimped fill hose.	<input type="checkbox"/> Check the fill valve for proper operation.
		<input type="checkbox"/> Check the fill hose for kinks, straighten as necessary.
	Fill valve in treadmill is not fully open.	<input type="checkbox"/> Check T-connector for blockage.
	Fill hose in treadmill is crimped.	<input type="checkbox"/> Check fill valve in treadmill for proper operation.
		<input type="checkbox"/> Check the fill hose for kinks, straighten as necessary.
		<input type="checkbox"/> Lightly squeeze wax container.
	Unit already is filled with wax	<input type="checkbox"/> Check Lines and bag to verify unit needs wax.
		<p>Call Life Fitness            Customer Support Services            1-847-451-0036 or 1-800-351-3737</p>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

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**Symptom: Wax Is Leaking From Treadmill**

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Malfunction	Probable Cause	Corrective Action
<b>Wax Leak</b>	<p>Partially open or faulty fill valve.</p> <p>Loose hose connections.</p> <p>Faulty connection at "T" fitting and bag.</p> <p>Wax bag is pinched or torn.</p> <p>Pump does not shut off, wax passes through pump and drips slowly from nozzle.</p>	<p><input type="checkbox"/> Fully close fill valve.</p> <p><input type="checkbox"/> Inspect hose connections and secure as necessary.</p> <p><input type="checkbox"/> Replace hose connectors if necessary.</p> <p><input type="checkbox"/> Replace wax bag and all tubing.</p> <p><input type="checkbox"/> Replace wax bag.</p> <p><input type="checkbox"/> Replace wax pump.</p>
		<p><b>Call Life Fitness</b>  <b>Customer Support Services</b>  <b>1-847-451-0036 or 1-800-351-3737</b></p>

**TROUBLESHOOTING GUIDE**

**Symptom: Display reads "Belt Beyond Limits" or "Notify Maintenance - Belt Tracking Error" or Belt Comes In Contact With Frame and End Caps**

Malfunction	Probable Cause	Corrective Action
<b>The belt is traveling beyond the tracking limits.</b>	Tracking sensor is not along edge of belt or is stuck underneath belt.	<input type="checkbox"/> Inspect position of tracking sensor and align with edge of belt.
	Tracking sensor spring is damaged or bends easily.	<input type="checkbox"/> Replace tracking sensor spring.
	Fault tracking sensor.	<input type="checkbox"/> Enter tracking diagnostics (9-1-9 ENTER, press RANDOM). Manually move tracking sensor spring, note if display does not read "Belt Too Far Left", "Too Far Right", "Belt Within Limits" or "Belt Beyond Limits". <input type="checkbox"/> Check wire harness connections and try the above test again. <input type="checkbox"/> If above mentioned message did not appear, replace tracking sensor assembly.
	Deck or Belt is worn out.	<input type="checkbox"/> Replace Belt and Deck.
	Faulty tracking motor.	<input type="checkbox"/> Center belt according to belt centering technique described in technical manual. See How to Replace Striding Belt. <input type="checkbox"/> Enter tracking manual diagnostics.(9-1-9 ENTER press RANDOM, MANUAL) Remove left front end cap. Using the INCLINE keys on the keypad, operate the tracking motor. Does the nut on the end of the tracking screw turn (Note: nut should turn very slowly). <input type="checkbox"/> Check wire harnesses and repeat the above-mentioned test. <input type="checkbox"/> If above mentioned procedure did not operate the tracking motor, replace the tracking motor.
	White nylon block	<input type="checkbox"/> Check for stripped threads.
	Loose coupler screws	<input type="checkbox"/> Tighten coupler screws.
	Striding belt needs to be re-tensioned.	<input type="checkbox"/> Refer to belt tensioning procedure in operation or service manual.
		<b>Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737</b>



**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Heart Rate System Does Not Respond, Erratic Heart Rate Reading**

Malfunction	Probable Cause	Corrective Action
<p><b>Heart Rate System does not respond or improper heart rate reading or "Reading Heart Rate" appears in the message center for more than 2 minutes without giving heart rate reading.</b></p>	<p>Dirty handlebar sensors.</p>	<p><input type="checkbox"/> Wipe sensors with a clean soft cloth.</p>
	<p>Inadequate contact with all four sensors.</p>	<p><input type="checkbox"/> Verify a firm grip of all four sensors (2 on top, 2 on bottom of handlebar).</p>
<p><b>Display reads a continuous heart rate reading when hands are removed.</b></p>	<p>User running over 4.5 mph (7.25kph).</p>	<p><input type="checkbox"/> For accurate heart rate reading, user must slow down to less than 4.5 mph (7.5kph).</p>
	<p>User may have an unusual heart condition.</p>	<p><input type="checkbox"/> Have different people grasp sensors to detect any variance.</p>
	<p>Older software revision on heart rate sensor board.</p>	<p><input type="checkbox"/> Enter into DIAGNOSTIC menu to attain software revision. Enter into Execute Viewing of Usage Statistics.</p>
	<p>Loose connections at console and handlebar.</p>	<p><input type="checkbox"/> Secure connections at console and handlebar.</p>
	<p>Faulty display console.</p>	<p><input type="checkbox"/> Replace entire display console.</p>
	<p>Faulty handlebar.</p>	<p><input type="checkbox"/> Swap handlebar with known working machine. Replace handlebar if necessary.</p>
	<p>Sweat trails or cleaner residue will cause misreadings.</p>	<p><input type="checkbox"/> Clean sensor with water and a clean soft cloth to remove salt and oils.</p>
	<p>Harness wires pinched at handrail.</p>	<p><input type="checkbox"/> Replace handlebar if the wires are damaged.</p>
		<p><b>Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737</b></p>

## TROUBLESHOOTING GUIDE

## Symptom: NO TELEMETRY READING

# SECTION I

Malfunction	Probable Cause	Corrective Action
<b>No Chest Strap detected.</b>	Chest strap sensors not making good contact with body of user.	<input type="checkbox"/> Adjust chest strap <input type="checkbox"/> Moisten sensors to make better contact with skin
	Loose connection at receiver.	<input type="checkbox"/> Check connection on receiver (See “How To...”)
	User is out of monitoring range.	<input type="checkbox"/> Move within three feet (1 meter) of receiver
	Faulty receiver.	<input type="checkbox"/> Replace receiver
	Faulty chest strap.	<input type="checkbox"/> Replace chest strap
<b>Erratic Heart Rate readings (Cross Talk)</b>	Treadmills are located less than 8” (203 mm) apart.	<input type="checkbox"/> Position treadmills to recommended distances (See Operation Manual)
<b>Display reads “Chest strap not Detected”</b>	Bad connection between handlebar and display console	<input type="checkbox"/> Check connection between handlebar and display console <input type="checkbox"/> Perform Heart rate diagnostics test to check if handlebars respond (See Section II)
	Faulty handlebar	<input type="checkbox"/> Replace faulty handlebars
	Faulty display console assembly	<input type="checkbox"/> Switch display console with another treadmill <input type="checkbox"/> Replace display console assembly
		<b>Call Life Fitness            Customer Support Services            1-847-451-0036 or 1-800-351-3737</b>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: "Notify Maintenance" - "Speed Control Error"**

Malfunction	Probable Cause	Corrective Action
<b>Speed control error</b> Record Speed Error #, and refer to maintenance mode in operational manual.	Insufficient power source.	<input type="checkbox"/> Plug Treadmill into a dedicated 120Volt, 20 Amp circuit.
	Loose connections at motor controller.	<input type="checkbox"/> Inspect cable connections. <input type="checkbox"/> Enter into speed automatic DIAGNOSTICS (See Section II). If "Total Cal" and "Cal/HR" (Watts) LED's are not lit, inspect wire connections at control board and motor controller. Check connections. <input type="checkbox"/> If "Total Cal" LED is lit and "Cal/HR" (Watts) LED is out, then with your feet off the belt, press the speed increase key. The "Total Cal" LED should go out initially while the "Cal/HR" (Watts) LED comes on. Once the belt reaches speed, both LEDs should be on. If this is the case, both the control board and the motor controller are functioning. <input type="checkbox"/> Walk on unit for 5 minutes, (Note the condition of the LED's mentioned above. If the "Total Cal" LED flashes on and off, the striding belt needs to be changed due to wear on the belt or deck.
	Faulty Emerson motor controller.	<input type="checkbox"/> Switch the Emerson motor controller with another Life Fitness model 9500HR treadmill if available. <input type="checkbox"/> Replace motor controller.
	Faulty CPU control board.	<input type="checkbox"/> Switch the CPU control board with another Life Fitness model 9500HR treadmill if available. <input type="checkbox"/> Replace CPU control board.
	Loose connection at drive motor.	<input type="checkbox"/> Inspect main drive motor harness connections.
	Loose drive motor belt.	<input type="checkbox"/> Inspect main drive motor belt tension (See "How To...").
	Broken weld on drive motor housing.	<input type="checkbox"/> Inspect drive motor housing and tensioning bolt condition. Replace if necessary.  <b>Call Life Fitness  Customer Support Services  1-847-451-0036 or 1-800-351-3737</b>

**TROUBLESHOOTING GUIDE**

**Symptom: Striding Belt Not Centered On Deck**

**SECTION I**

Malfunction	Probable Cause	Corrective Action
Striding belt mis-alignment	Improper walking/running.	<ul style="list-style-type: none"> <li><input type="checkbox"/> Enter into tracking automatic in DIAGNOSTIC mode by pressing 9-1-9, ENTER.</li> <li><input type="checkbox"/> Run machine for 3-4 minutes to observe possible belt tracking without a user on treadmill. If message center displays "Belt Within Limits", the belt is properly aligned.</li> <li><input type="checkbox"/> If message center displays "Belt Beyond Limits", go into tracking manual mode (Manual &amp; Random LED is lit).</li> <li><input type="checkbox"/> Without starting belt, press Incline Up key for 1 minute. (Moves belt to right.) Press Incline Down key for 1 minutes. (Moves belt to left.)</li> <li><input type="checkbox"/> Start belt moving at 2.0 mph (3.22kph), continue to press Incline Up or Incline Down key until display reads "belt to far left/to far right".</li> <li><input type="checkbox"/> If belt and display do not respond in 3 to 5 minutes, see Symptom: "Notify Maintenance-Belt Tracking Error"</li> <li><input type="checkbox"/> Go into tracking automatic mode (Random LED lit)</li> <li><input type="checkbox"/> Increase speed to 3.0 mph (4.83kph), allow belt to align. (3-10 minutes typically.)</li> <li><input type="checkbox"/> When message center displays "Belt Within Limits" you are done.</li> </ul> <p><b>Call Life Fitness Customer Support Services 1-847-451-0036 or 1-800-351-3737</b></p>

NOTE: Also refer to Symptom: "Belt Beyond Limits" or "Notify Maintenance-Belt Tracking Error"

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Display reads "Notify Maintenance Lift Control Error"**

Malfunction	Probable Cause	Corrective Action
<b>Lift Error</b>	Incline control error.	<input type="checkbox"/> Enter into Incline Manual mode in the DIAGNOSTICS menu. (See Section IIII) by pressing 9-1-9 ENTER.
	Insufficient power source.	<input type="checkbox"/> Incline unit with two people on top of unit.
	Weight limitation.	<input type="checkbox"/> Plug treadmill into a dedicated 120v, 20amp circuit. (See Operations Manual)
	Will not lift.	<input type="checkbox"/> Advise user of weight limit of 300lbs. (137kg).
	Unit only lifts up. Unit thinks it is always at "0" percent	<input type="checkbox"/> Perform lift test procedure from above.
	3 amp circuit breaker popped.	<input type="checkbox"/> Check home switch for smooth operation and check home switch cables/connectors.
	Stuck Relay on CPU Board	<input type="checkbox"/> Check lift actuator cable connections and presence of (1 only) suppressor board.
	Failed, damaged or cracked.	<input type="checkbox"/> Test circuit breakers. Replace if necessary. <input type="checkbox"/> Replace CPU Board <input type="checkbox"/> Replace lift actuator.
		<b>Call Life Fitness            Customer Support Services            1-847-451-0036 or 1-800-351-3737</b>

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: Workout Pause: "Notify Maintenance"**

**SECTION I**

Malfunction	Probable Cause	Corrective Action
<b>Striding Belt will not start</b>	Insufficient power.	<input type="checkbox"/> Plug into electrical outlet with proper voltage and amperage requirements.
	Loose connections at motor controller.	<input type="checkbox"/> Inspect all connections.
	Faulty motor controller.	<input type="checkbox"/> Switch motor controllers with another working 9500HR Treadmill. Replace if defective.
	Loose connections at drive motor.	<input type="checkbox"/> Inspect all connections. <input type="checkbox"/> Use a voltmeter to measure the Ohms between the two blue wires of the drive motor wire harness. If the connection is open, replace the drive motor assembly.
	Damage to drive motor assembly.	<input type="checkbox"/> Inspect drive motor for damage to pulley or drive motor belt.
		<b>Call Life Fitness</b> <b>Customer Support Services</b> <b>1-847-451-0036 or 1-800-351-3737</b>

***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

**NOTES:**

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# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

### How To...EXECUTE THE SERVICE MODE

**WARNING: DO NOT STAND ON THE STRIDING BELT WHILE ENTERING THE SERVICE MODE OR WHILE PERFORMING ANY OF THE DIAGNOSTIC TESTS.**

The diagram shows the treadmill control console with the following components:

- STOP** button (large black button).
- TIME** display: cumulative main motor on time in hrs. (dec. on => in 10 hrs.).
- MILES** display: number of pulses sent to the controller.
- N/A** display: ○ CAL/HR, ○ TOTAL CAL.
- INSTRUCTIONS** display: speed control mode messages.
- PROGRAM PROFILE** display: a grid of 10 columns and 10 rows of small squares.
- PROGRAMS** buttons: HILL, HEART RATE, RANDOM, FIT TEST, MANUAL, PAUSE.
- SPEED (MPH)** display: target speed, actual speed.
- INCLINE (%)** display: actual speed.
- UP** and **DOWN** arrow buttons.
- NUMERIC KEYS**: 1-9, 0, CLEAR/PAUSE, START/ENTER.

press "CLEAR" to exit maintenance

The diagram shows the treadmill control console with the following components:

- STOP** button (large black button).
- TIME** display: Cumulative main motor on time in hrs. (dec. on => in 10 hrs.).
- DISTANCE** display: Number of pulses sent to the controller.
- N/A** display: ○ CALORIES, ○ WATTS.
- Speed Control Mode Messages** display: a grid of 10 columns and 10 rows of small squares.
- PROGRAMS** buttons: FAT BURN, CARDIO, HILL, RANDOM, MANUAL, FIT TEST.
- SPEED** display: Target Speed, Actual Speed.
- INCLINE (%)** display: Actual Speed.
- UP** and **DOWN** arrow buttons.
- NUMERIC KEYS**: 1-9, 0, CLEAR/PAUSE, START/ENTER.
- Life Fitness** logo.
- CAUTION** note: Consult a physician before using this equipment. Stop exercising if you feel pain, faint, dizzy or short of breath.
- Life Fitness** contact information: 1-800-735-3867, ATLANTIC: +49-99 / 3177 61-0.
- QUICK START** buttons: PRESS START, ENTER WEIGHT, PRESS SPEED, PRESS INCLINE.

Press "CLEAR" to exit maintenance

**NOTE: TO ACCESS A SPECIFIED DIAGNOSTIC PROGRAM, USE THE PROGRAM KEYS. A PROGRAM KEY IS CONSIDERED "ON" WHEN ITS LED IS LIT, "OFF" WHEN IT IS NOT LIT. THE DISPLAY PROGRAM LED'S SHOWN ON THESE EXAMPLES ARE "OFF".**

#### TO ENTER THE DIAGNOSTIC / ACCOUNTING TEST:

1. Press the **START** key once.
2. Press the **CLEAR** key twice.
3. Press the number keys **9 - 1 - 9**.
4. Press the **ENTER** key.

#### IF THE TREADMILL IS CONNECTED TO A LIFECENTER SYSTEM:

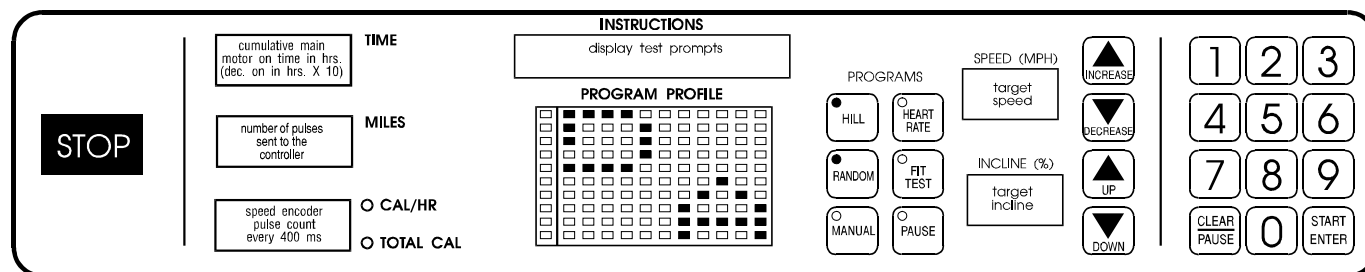
1. Press the **START** key once.
2. Press the **CLEAR** key twice.
3. Press the **MANUAL** program key.
4. Press the number keys **9 - 1 - 9**.
5. Press the **ENTER** key.



# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

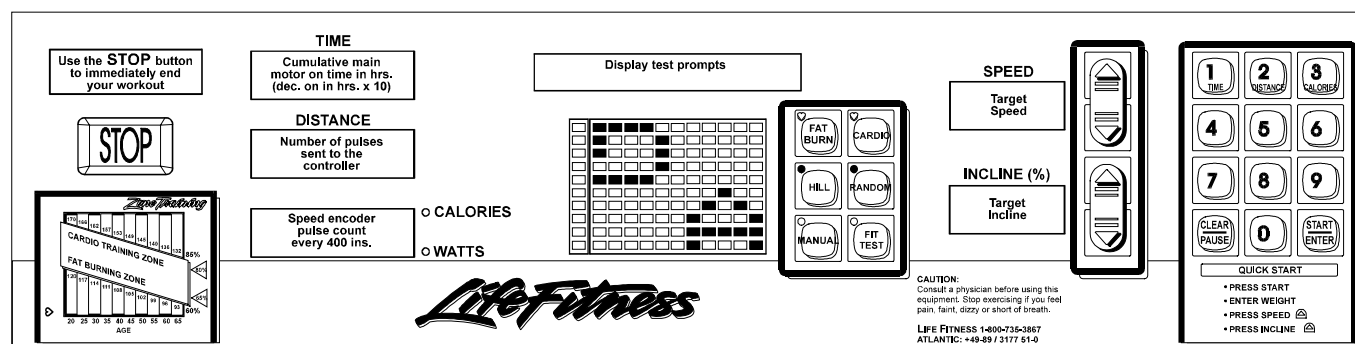
### How To...EXECUTE THE DISPLAY TEST



press "CLEAR" to exit maintenance

*This test indicates if the Display is working properly.*

**TO ENTER INTO THE DISPLAY TEST TURN "ON" THE HILL AND RANDOM KEYS**



Press "CLEAR" to exit maintenance

**The information that will be displayed in this mode is as follows:**

- ☐ Lit LED's displayed in all windows.
- ☐ Walking LED's displayed in all windows.
- ☐ Hours that main motor has been working displayed in **TIME** window.
- ☐ Speed encoder count displayed in **CALORIES** window
- ☐ Speed pulse count displayed in **MILES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

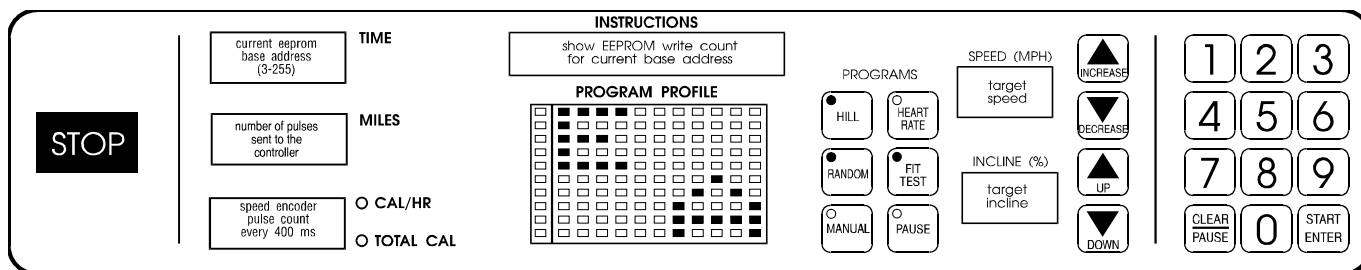
**Tests in the Display Diagnostics are as follows:**

1. Press the **ENTER** key **once** to test Displays LED's.  
Press the **ENTER** key **twice** to test Display Walking LED's.
2. After pressing the **ENTER** key once, press Number Keys to view specific digits.
3. Press **INCLINE** and **SPEED** keys to view specific number segments.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

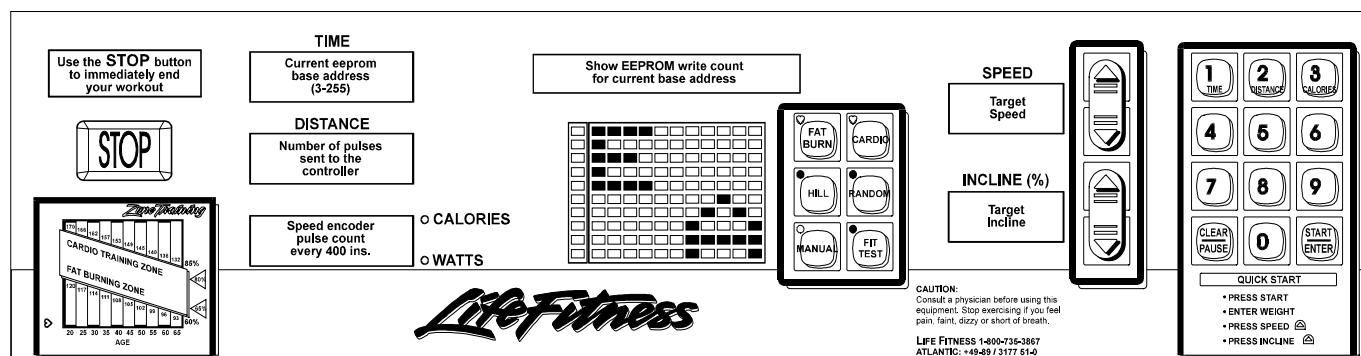
### How To...EXECUTE THE EEPROM MODE



press "CLEAR" to exit maintenance

*This test indicates the amount of memory and allows for changes in the program times.*

TO ENTER INTO THE TEST TURN "ON" THE HILL, RANDOM AND FIT TEST PROGRAM KEYS.



Press "CLEAR" to exit maintenance

**The information that will be displayed in this mode is as follows:**

- ☐ Statistics and software code version will be displayed in the **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Speed pulse count displayed in **MILES** window.
- ☐ Software options are displayed in **INSTRUCTIONS** window.
- ☐ Optional settings displayed in the **INSTRUCTIONS** window.

You may change Program times by pressing the **ENTER** key when the Program time is indicated on the **INSTRUCTIONS** window. Default time is set at 60 Minutes and can be reset from 1 to 99 Minutes.

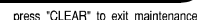
You may change the maximum programmable belt speed by pressing the speed **INCREASE** and **DECREASE** keys when the **MAXIMUM SPEED** message is displayed in the **INSTRUCTIONS** window. The choices for maximum belt speeds are 10.0 mph (11.6 kpm) to 2.0 mph (3.22 kph) in 0.5 mph (0.805 kph) increments.

You may change the minimum speed between 1.0 mph (1.61 kph) and 1.5 mph (2.415 kph) using the speed **INCREASE** and **DECREASE** keys.

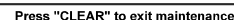
You may turn the **TELEMETRY ON** and **OFF** using the speed **INCREASE** and **DECREASE** keys.

Press the **CLEAR** key to exit the Diagnostic Program or press Program keys to enter another Diagnostic/Accounting function.

## How To...EXECUTE THE INCLINE CONTROL TEST



**TO ENTER INTO THE INCLINE CONTROL TEST TURN "ON" THE HILL PROGRAM KEY.**



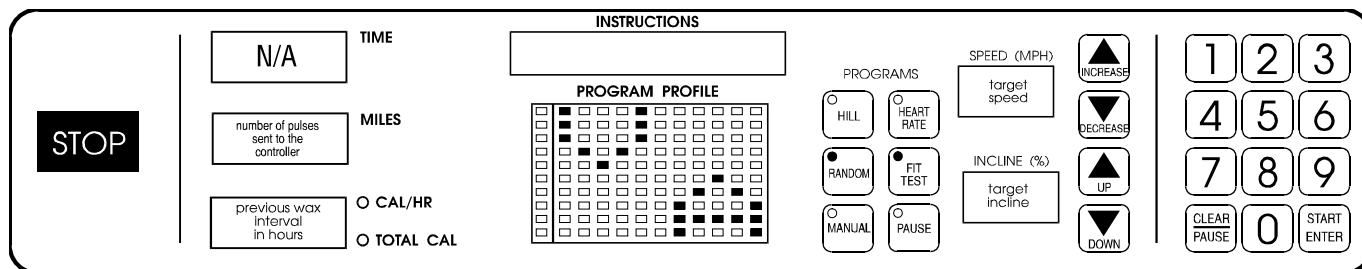
- ☐ How long lift action has been on in minutes. Displayed in **TIME** window.
- ☐ Lift position counts displayed in **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Target incline indicated in **SPEED** window.
- ☐ Actual incline indicated in **INCLINE** window.

**NOTE: INCLINE NUMBERS SHOULD BE EQUAL.**

1. Press **INCLINE** keys to target incline.
2. Press the **SPEED** or **NUMBER** keys to enter a target speed.
3. Press the **ENTER** or " **0** " key to stop the striding belt.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

# DIAGNOSTIC TESTS

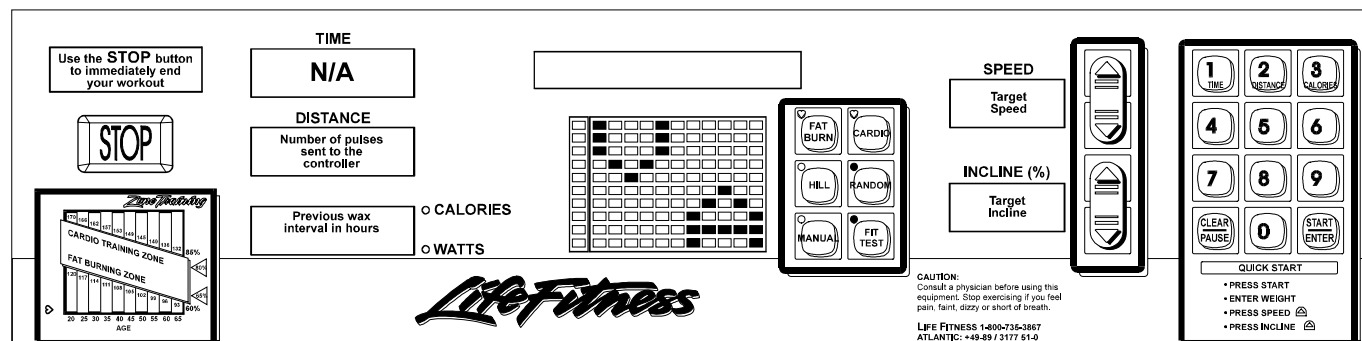
## How To...EXECUTE VIEWING OF USAGE STATISTICS



press "CLEAR" to exit maintenance

*This mode supplies statistics and code versions of the Treadmill.*

**TO ENTER INTO THE VIEWING OF USAGE STATISTICS TESTS  
TURN "ON" THE RANDOM AND FIT TEST PROGRAM KEYS**



Press "CLEAR" to exit maintenance

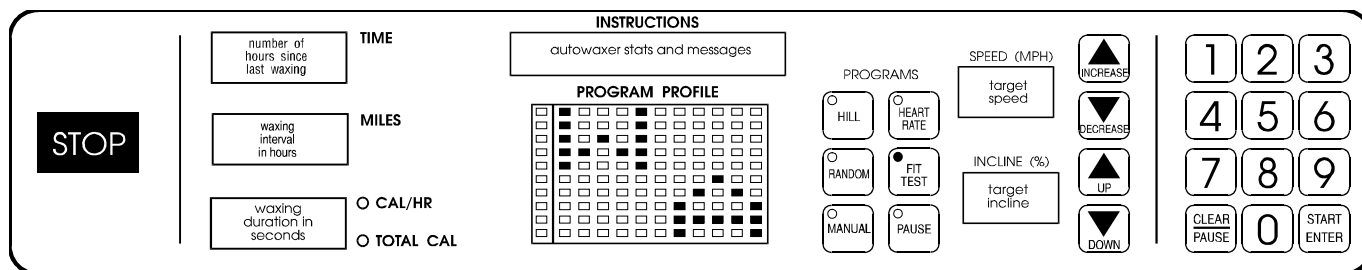
**The information that will be displayed in this mode is as follows:**

- ☐ Statistics and software code version displayed in the **INSTRUCTIONS** window.
- ☐ Speed encoder count displayed in **CALORIES** window.
- ☐ Speed pulse count displayed in **MILES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

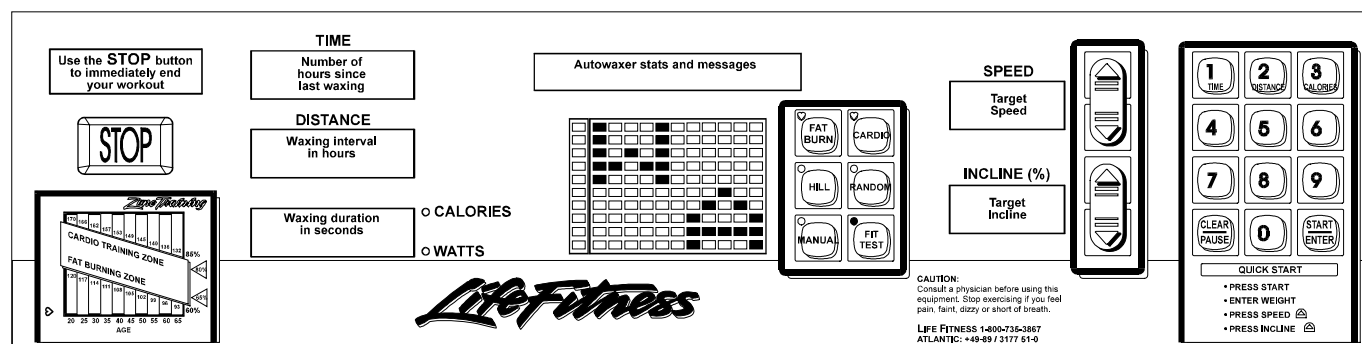
### How To...EXECUTE THE WAXER CONTROL TEST



press "CLEAR" to exit maintenance

*This test indicates the status of the waxing system.*

**TO ENTER INTO THE TEST TURN "ON" THE FIT TEST PROGRAM KEY.**



Press "CLEAR" to exit maintenance

**The information that will be displayed in this mode is as follows:**

- ☐ Percent of wax left in reservoir displayed in the **INSTRUCTIONS** window.
- ☐ Number of times the wax pump has discharged displayed in **INSTRUCTIONS** window.
- ☐ Hours since last waxing displayed in the **TIME** window.
- ☐ Waxing duration displayed in the **CALORIES** window.
- ☐ Waxing interval displayed in the **MILES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.

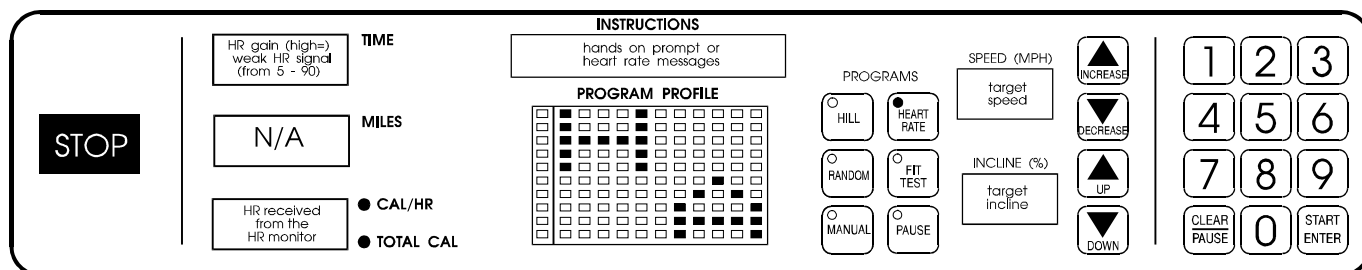
**Tests in the Waxing Control Diagnostics are as follows:**

1. Press the **ENTER** key to start waxing operation.
2. Press the **SPEED** or **NUMBER** keys to enter a target speed.
3. Press the **INCLINE/DECLINE** keys to enter a target incline.
4. Press the "0" key to stop the striding belt.
5. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

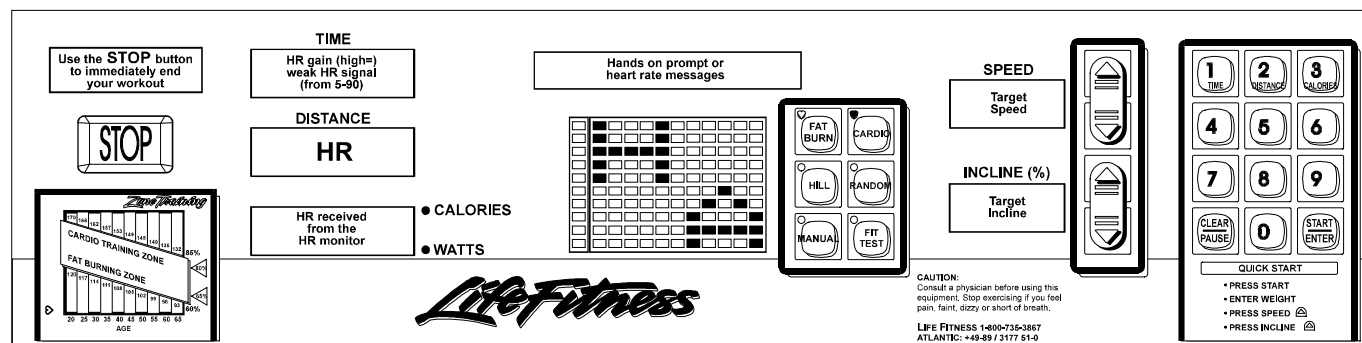
### How To...EXECUTE THE HEART RATE MONITORING MODE



press "CLEAR" to exit maintenance

*This test indicates if the heart rate program is operating properly.*

**TO ENTER INTO THE TEST TURN "ON" THE HEART RATE PROGRAM KEY.**



Press "CLEAR" to exit maintenance

**The information that will be displayed in this mode is as follows:**

- ☐ Hands "ON" condition indicated on **TOTAL CALORIE LED**.
- ☐ Sensor connection "GOOD" indicated on **CALORIE/HOUR LED**.
- ☐ Amplification factor for heart signal displayed in **TIME** window.
- ☐ Heart rate from HR Monitor displayed in **CALORIES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.
- ☐ Heart rate indicated in **INSTRUCTION** window.
- ☐ Telemetry HR indicated in **DISTANCE** window.

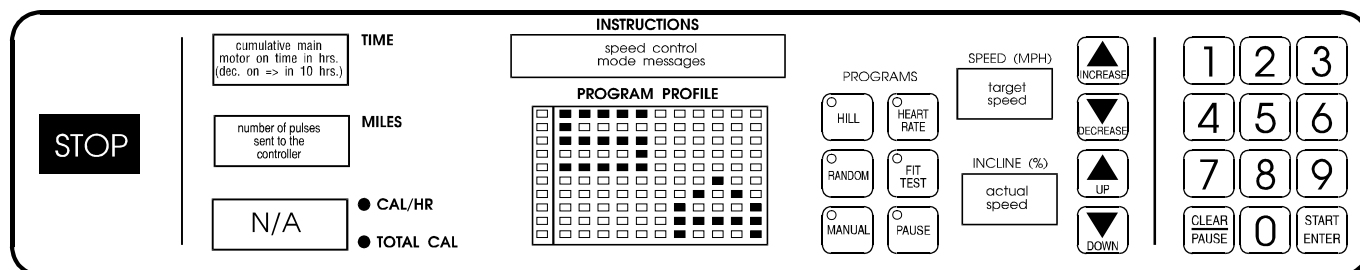
**To test the Heart Rate Monitor:**

1. Place hands on the handlebar sensors.
2. Read **INSTRUCTION** window.

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

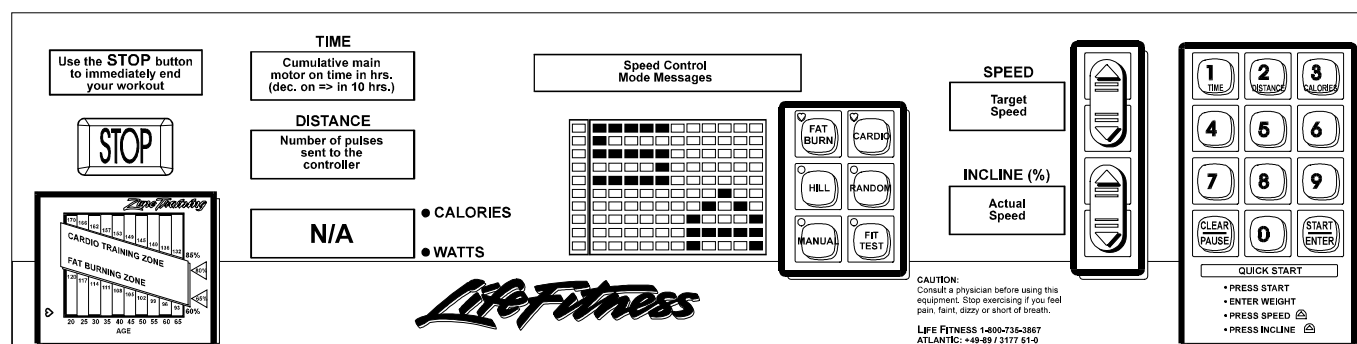
### How To...EXECUTE THE SPEED CONTROL OPERATION TEST



press "CLEAR" to exit maintenance

*This test indicates if the unit is running at the actual speed that the user has chosen.*

**TO ENTER INTO THE TEST ALL PROGRAM KEYS SHOULD BE IN THE "OFF" POSITION.**



Press "CLEAR" to exit maintenance

**The information that will be displayed in this mode is as follows:**

- ☐ Total main motor on time in hours is displayed in the **TIME** window.
- ☐ Total number of electrical pulses sent to the motor controller is displayed in the **MILES (KILOMETERS)** window.
- ☐ Total main motor on time in hours and total main motor **MILES (KILOMETERS)** are displayed in the **INSTRUCTIONS** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Actual speed indicated in **INCLINE** window.
- ☐ Energy pulses being sent to motor from motor controller are displayed on **CALORIE\HOUR LED**.
- ☐ Actual speed and target speed matched are displayed on **TOTAL CALORIE LED**.

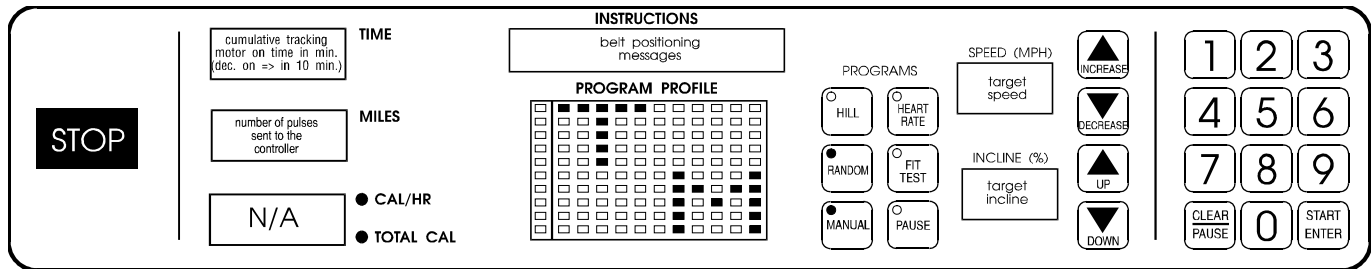
**Tests in the Speed Control Diagnostics are as follows:**

1. Press the speed **INCREASE\DECREASE** keys to enter target speed.
2. Examine target and actual speed windows to verify equal speeds.
3. Press the **ENTER** or "0" key to stop the striding belt.
4. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

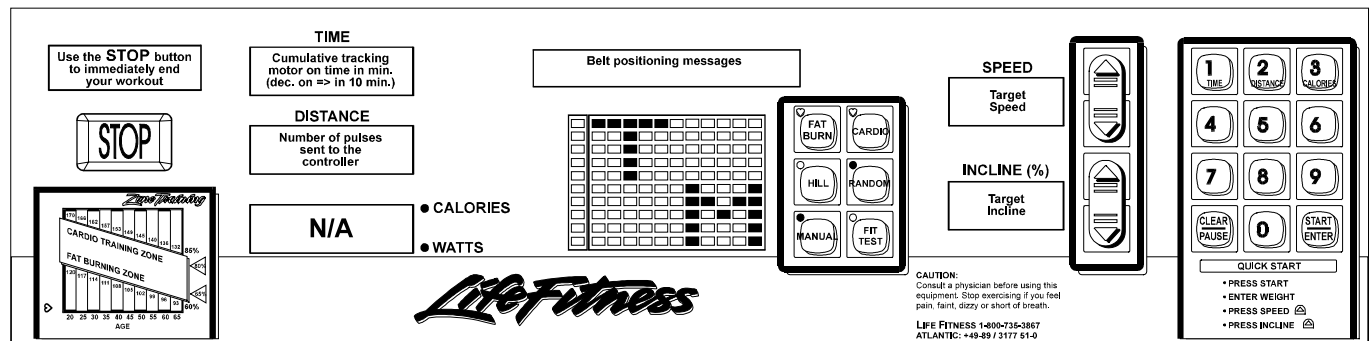
### How To...EXECUTE THE MANUAL TRACKING CONTROL OPERATION TEST



press "CLEAR" to exit maintenance

*This test indicates the position of the Striding Belt on the unit and allows the user to activate the Tracking Motor to center the Striding Belt.*

TO ENTER INTO THE TEST TURN "ON" THE RANDOM AND MANUAL PROGRAMS.



Press "CLEAR" to exit maintenance

**NOTE: BEFORE BEGINNING THIS TEST, CHECK TO SEE THAT THE TRACKING SENSOR SPRING IS IN THE PROPER POSITION ALONGSIDE THE STRIDING BELT.**

*The information that will be displayed in this mode is as follows:*

- ☐ Actual position of the striding belt is displayed in the **INSTRUCTIONS** window.
- ☐ Total accumulated tracking motor ON time in minutes is displayed in the **TIME** window.
- ☐ Total number of electrical pulses to motor are displayed in the **MILES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.
- ☐ Activating tracking motor to shift the striding belt to the right is displayed on **CALORIE/HOUR LED**.
- ☐ Activating tracking motor to shift the striding belt to the left is displayed on **TOTAL CALORIE LED**.

**Tests in the Manual Tracking Diagnostics are as follows:**

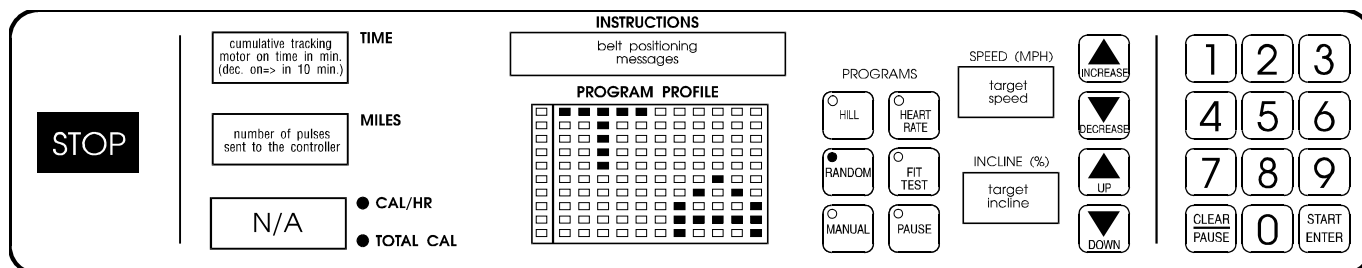
1. Press the speed **INCREASE/DECREASE** keys to enter target speed.
2. Press the **INCLINE UP** key to activate the tracking motor so the striding belt will go to the right.
3. Press the **INCLINE DOWN** key to activate the tracking motor so the striding belt will go to the left.
4. Press the **ENTER** or "0" key to stop the striding belt.
5. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.



# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## DIAGNOSTIC TESTS

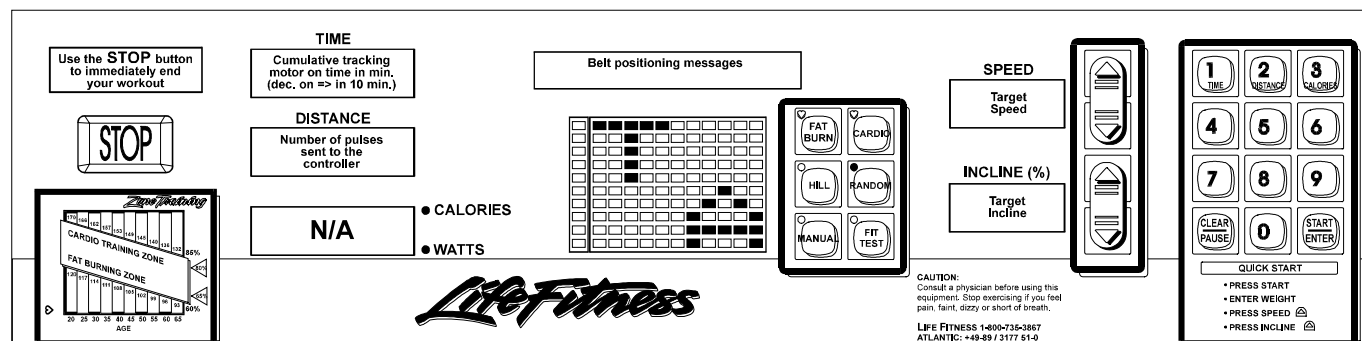
### How To...EXECUTE THE AUTOMATIC TRACKING CONTROL OPERATION TEST



press "CLEAR" to exit maintenance

**This test indicates the position of the Striding Belt on the unit and automatically activates the Tracking Motor to center the Striding Belt.**

**TO ENTER INTO THE TEST TURN "ON" THE RANDOM PROGRAM.**



Press "CLEAR" to exit maintenance

**NOTE: BEFORE BEGINNING THIS TEST, CHECK TO SEE THAT THE TRACKING SENSOR SPRING IS IN THE PROPER POSITION ALONGSIDE THE STRIDING BELT.**

**The information that will be displayed in this mode is as follows:**

- ☐ Actual position of the striding belt is displayed in the **INSTRUCTIONS** window.
- ☐ Total accumulated tracking motor ON time in minutes is displayed in the **TIME** window.
- ☐ Total number of electrical pulses to motor are displayed in the **MILES** window.
- ☐ Target speed indicated in **SPEED** window.
- ☐ Target incline indicated in **INCLINE** window.
- ☐ Activating tracking motor to shift the striding belt to the right is displayed on **CALORIE\HOUR LED**.
- ☐ Activating tracking motor to shift the striding belt to the left is displayed on **TOTAL CALORIE LED**.

**Tests in the Automatic Tracking Diagnostics are as follows:**

1. Press the speed **INCREASE\DECREASE** keys to enter target speed. (Unit will automatically activate the tracking motor to center the striding belt.)
2. Press the **ENTER** or "0" key to stop the striding belt.
3. Press **CLEAR** to exit the Diagnostic Program or press Program Keys to enter another Diagnostic/Accounting function.

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To... REMOVE AND REPLACE THE ANTI-SCUFF PADS**

**Tools Required:** Non-abrasive cleaning solution, paper towels, pencil, scribe

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#### **Step 1**

Use a pencil to draw an outline of the upper corners of the worn ANTI-SCUFF PAD on the FRAME.

#### **Step 2**

Peel the worn ANTI-SCUFF PAD from the FRAME PANEL and clean the residue with a non-abrasive cleaning solution and paper towels.

#### **Step 3**

Peel the protective backing from the new ANTI-SCUFF PAD.

#### **Step 4**

Align the top two corners of the new ANTI-SCUFF PAD with the lines drawn in Step 1 and press in place.

**NOTE: TO AVOID AIR BUBBLES, THE TOP TWO CORNERS MUST BE ALIGNED EXACTLY BEFORE PRESSING DOWN THE ENTIRE ANTI-SCUFF PAD.**

#### **Step 5**

Press the remainder of the new ANTI-SCUFF PAD against the FRAME PANEL. Start at the top and apply even pressure downward to the bottom keeping an even distance to the edge of the STRIDING BELT.

**NOTE: IN THE EVENT OF AIR BUBBLES, USE A SCRIBE TO MAKE A SMALL HOLE IN THE AIR BUBBLE, THEN PRESS THE PAD DOWN AGAINST THE FRAME PANEL UNTIL THE AIR BUBBLE IS GONE.**



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To...REMOVE AND REPLACE THE STOP SWITCH

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Remove the DISPLAY CONSOLE from the machine (See "How To...").

#### Step 3

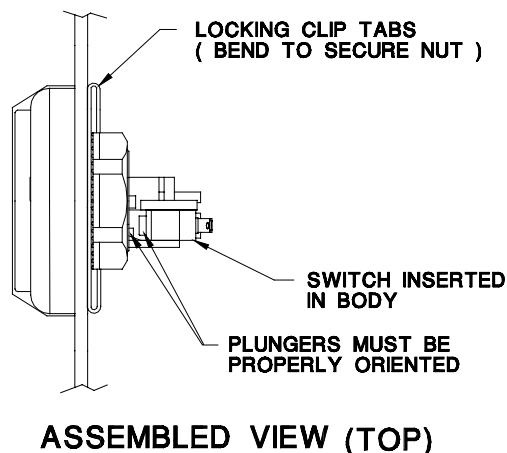
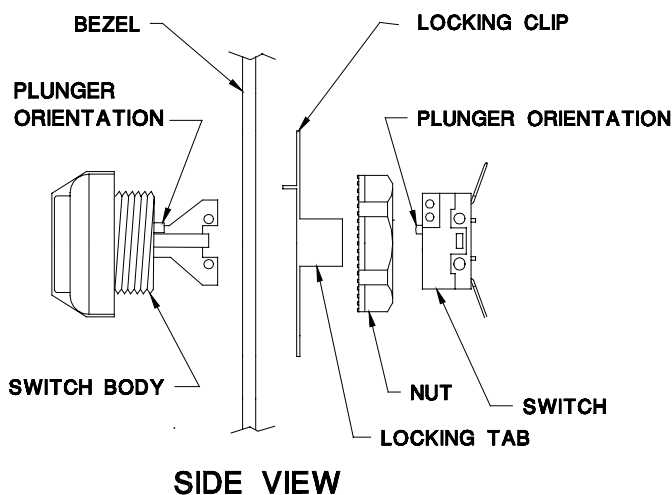
Remove the BEZEL ( FACE PLATE ) from the DISPLAY CONSOLE.

#### Step 4

Disconnect the wiring from the worn STOP SWITCH.

#### Step 5

Remove the worn STOP SWITCH from the BEZEL ASSEMBLY. Depending on the type of switch previously used, it may be necessary to damage the existing STOP SWITCH to accomplish this task. Take special care not to cause damage to the BEZEL ASSEMBLY during this procedure.



#### Step 6

Insert the STOP SWITCH BODY through the opening in the front of the BEZEL ASSEMBLY taking note to orient the SWITCH BODY so the word "STOP" is readable from the face of the BEZEL.

#### Step 7

Slide the locking CLIP from the rear of the BEZEL over the SWITCH BODY.

#### Step 8

Install the plastic NUT on to the threaded portion of the SWITCH BODY with the flat side toward the BEZEL and tighten 1/8 of a turn past hand tight. (Torque 10-15 in/lbs.)

**CAUTION: OVERTIGHTENING THE NUT MAY CAUSE DAMAGE TO THE SWITCH BODY OR THE BEZEL.**

#### Step 9

Bend each of the two LOCKING CLIP TABS of the LOCKING CLIP 90 degrees to secure the NUT into position and prevent it from rotating. It may be necessary to back off the NUT slightly to insure that the tabs come in contact with a flat spot on the NUT. The LOCKING CLIP TABS can sustain being bent several times to insure a tight lock.

#### Step 10

Insert the SWITCH into the SWITCH BODY taking special note to orient the two parts so the SWITCH PLUNGERS make contact upon assembly. **DO NOT** bend the CONNECTOR TABS on the switch.

**NOTE: VERIFY THAT THE PLUNGERS ARE MAKING CONTACT BY PRESSING THE STOP BUTTON AND VISUALLY INSURING THEY TOUCH EACH OTHER. A CLICKING SOUND WILL BE HEARD FROM THE SWITCH IF THE ASSEMBLY HAS BEEN INSTALLED PROPERLY.**

#### Step 11

Reconnect the wiring **being extremely careful not to bend or break the connecting tabs of the switch** and reverse Steps 1 through 3 to return all parts to their proper position.

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To...REMOVE AND REPLACE THE TELEMETRY / HR KIT

**Tools Required:** Phillips screwdriver

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Use a Phillips screwdriver to loosen and remove the two SCREWS securing the TELEMETRY/HEART RATE SENSOR COVER to the bottom of the CONSOLE PAN.

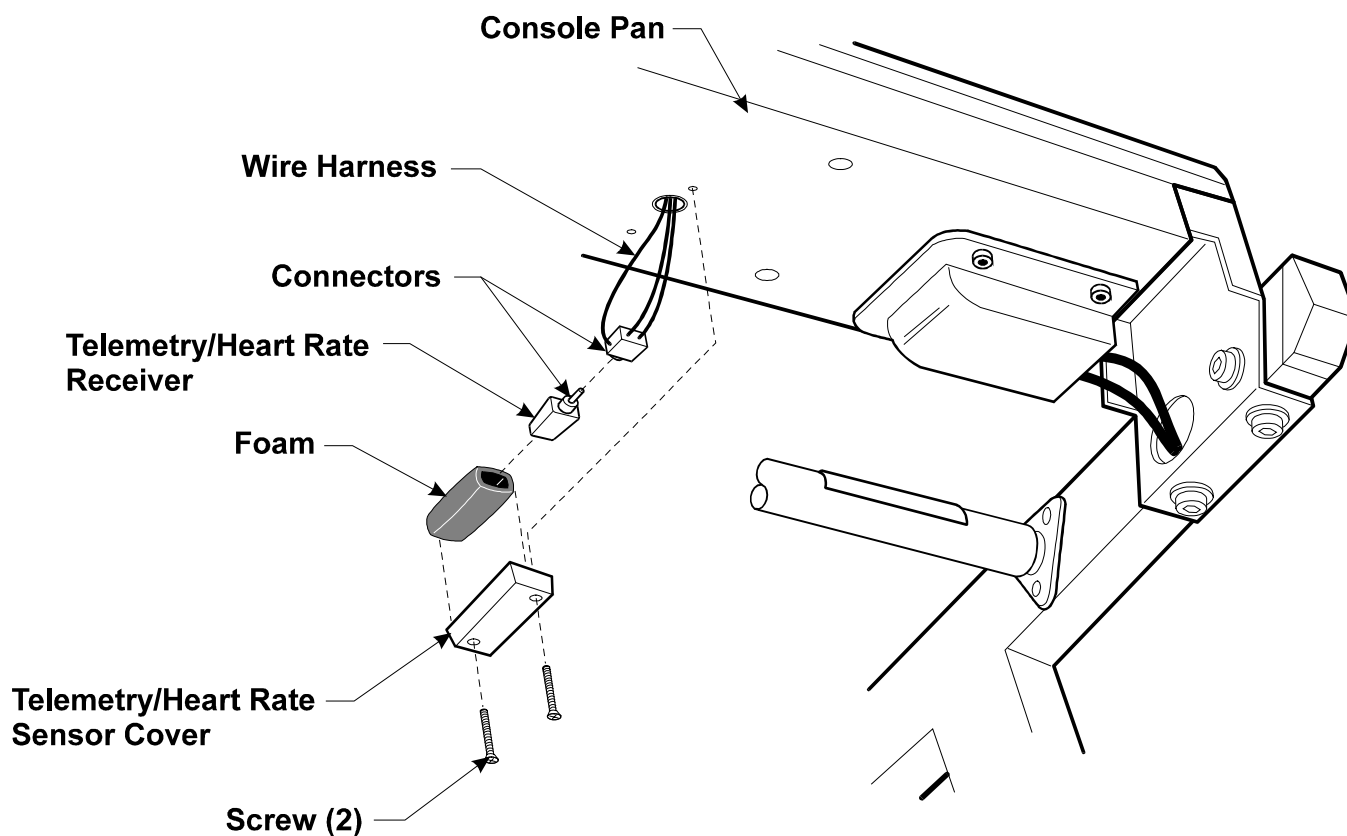
#### Step 3

Gently pull on the WIRE HARNESS protruding from the CONSOLE PAN to provide some slack in the line. Remove the TELEMETRY/HEART RATE RECEIVER from within the protective foam and unplug the RECEIVER from the receptacle on the WIRE HARNESS.

#### Step 4

Install the new TELEMETRY/HEART RATE RECEIVER by reversing Steps 1 through 3 to return all parts to their proper position.

**NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN THE CONSOLE PAN AND THE TELEMETRY/HEART RATE SENSOR COVER DURING INSTALLATION.**



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To...REMOVE AND REPLACE THE DISPLAY CONSOLE

**Tools Required:** Phillips screwdriver, socket and ratchet set

---

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Remove the four SCREWS securing the CONNECTOR COVER to the bottom of the DISPLAY CONSOLE.

#### Step 3

Unplug the 10 PIN CONNECTOR and the 4 PIN CONNECTOR from the back of the DISPLAY CONSOLE.

#### Step 4

Remove the four SCREWS securing the DISPLAY CONSOLE to the HANDRAIL BRACKETS.

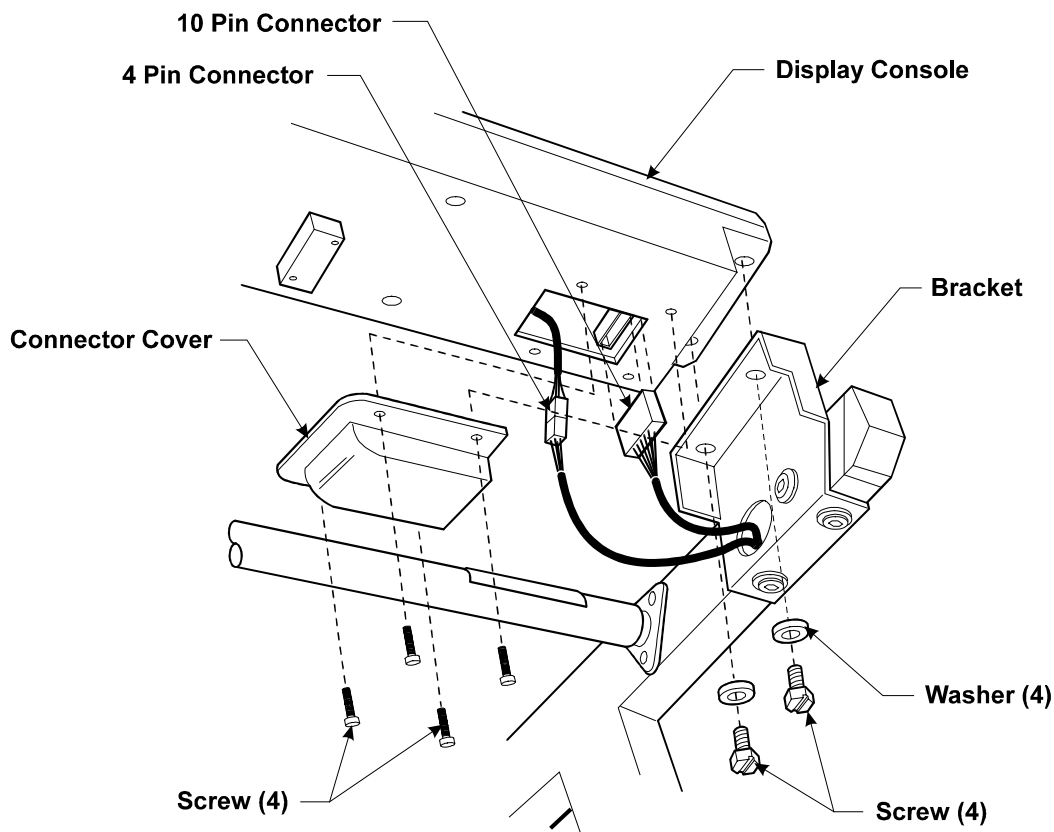
#### Step 5

Rest the new DISPLAY CONSOLE on the BRACKETS, then install and tighten the four SCREWS in a criss-cross pattern to secure it in place. **Do not overtighten the screws.**

**NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN THE DISPLAY CONSOLE AND THE BRACKETS.**

#### Step 6

Reverse Steps 1 through 3 to complete installation.



## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

### **How To...REMOVE AND REPLACE THE HANDLEBAR**

**Tools Required:** Phillips screwdriver, hex key wrench set, socket and ratchet set

---

#### **Step 1**

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### **Step 2**

Remove the DISPLAY CONSOLE (See "How To...").

#### **Step 3**

Remove the user RIGHT HANDRAIL FOOT COVER (See "How To...").

#### **Step 4**

Loosen, but do not remove, the two BOLTS securing the base of the RIGHT HANDRAIL to the Treadmill FRAME.

#### **Step 5**

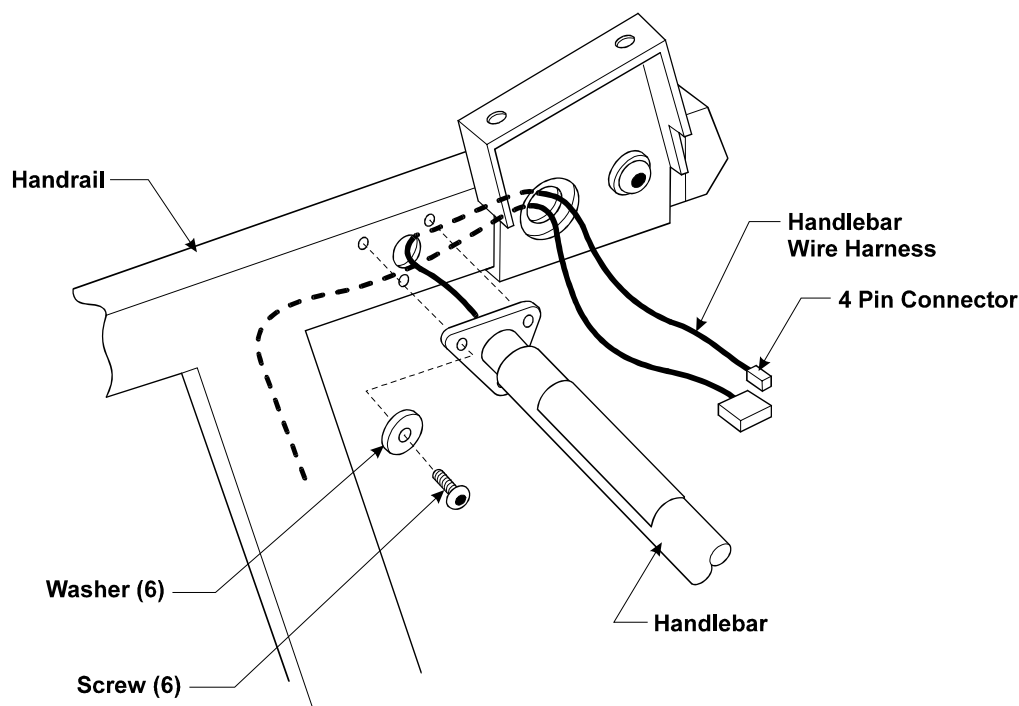
Remove the six SCREWS securing the HANDLEBAR to the two HANDRAILS. Withdraw the HANDLEBAR WIRE HARNESS with the 4 PIN CONNECTOR from the user LEFT HANDRAIL as you lift out and remove the HANDLEBAR.

#### **Step 6**

Grasp the new HANDLEBAR, and with the WIRE HARNESS to the left, route the WIRE HARNESS through the opening in the LEFT HANDRAIL, exiting alongside the other WIRE HARNESS. Align the three holes in the HANDLEBAR FLANGE with those in the LEFT HANDRAIL and re-install the SCREWS. Repeat on the right side.

#### **Step 7**

Reverse Steps 1 through 4 to return the Treadmill to operation.



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE HANDRAILS

**Tools Required:** Phillips screwdriver, hex key wrench set, socket and ratchet set

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Remove the DISPLAY CONSOLE (See "How To...").

#### Step 3

Remove the FOOT COVER from the HANDRAIL you wish to replace (See "How To...").

#### Step 4

Loosen and remove the three SCREWS securing the HANDLEBAR FLANGE to the HANDRAIL you are replacing.

#### Step 5

To replace the **RIGHT HANDRAIL** simply remove the two BOLTS from the base of the worn HANDRAIL and lift it away from the machine. Proceed to Step 7.

To replace the **LEFT HANDRAIL** remove the two BOLTS from the base of the worn HANDRAIL and **very carefully** tilt the HANDRAIL away from the machine to allow removal of the HANDLEBAR HEART RATE WIRE HARNESS from the top of the HANDRAIL. **Slowly** lift the HANDRAIL and unplug the 10 PIN CONNECTORS located between the base of the HANDRAIL and the Treadmill FRAME. Set the HANDRAIL down away from the machine.

#### Step 6

If you have removed the **LEFT HANDRAIL** carefully withdraw the DISPLAY WIRE HARNESS from the worn HANDRAIL and transfer it to the new HANDRAIL. (See "How To....")

#### Step 7

Transfer the DISPLAY CONSOLE BRACKET from the HANDRAIL being replaced to the new HANDRAIL by removing the three SCREWS and WASHERS securing it in place.

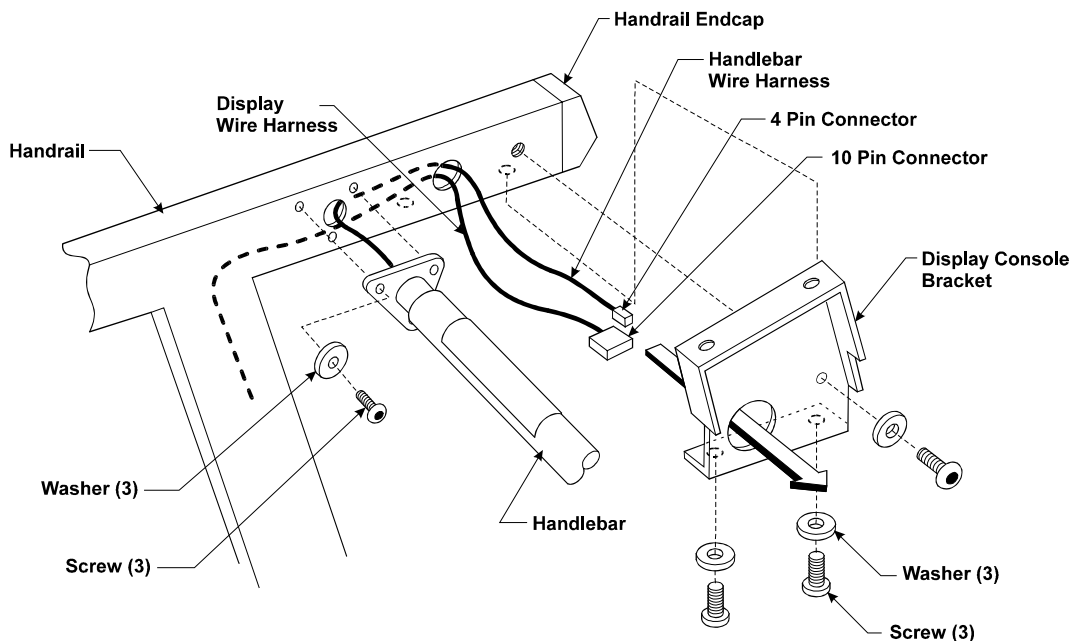
#### Step 8

Remove the two HANDRAIL ENDCAPS from the worn HANDRAIL and transfer them to the new HANDRAIL.

#### Step 9

Reverse Steps 1 through 5 to return all parts to their proper position.

**NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN PARTS DURING ASSEMBLY OF THE TREADMILL.**



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE DISPLAY WIRE HARNESS

**Tools Required:** Phillips screwdriver, hex key wrench set, socket and ratchet set

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Remove the DISPLAY CONSOLE (See "How To...").

#### Step 3

Remove the FOOT COVER from the LEFT HANDRAIL (See "How To...").

#### Step 4

Loosen and remove the three SCREWS securing the LEFT HANDLEBAR FLANGE to the HANDRAIL.

**WARNING: HAVE ANOTHER PERSON HOLD THE HANDRAIL ASSEMBLY IN PLACE BEFORE PERFORMING THE NEXT STEP**

#### Step 5

Remove the two BOLTS from the base of the LEFT HANDRAIL and **very carefully** tilt the HANDRAIL away from the machine to allow removal of the HANDLEBAR WIRE HARNESS from the top of the HANDRAIL. **Slowly** lift the HANDRAIL and unplug the 10 PIN CONNECTOR located between the base of the HANDRAIL and the Treadmill FRAME. Lift the HANDRAIL away from the machine and set it down in a clear working area.

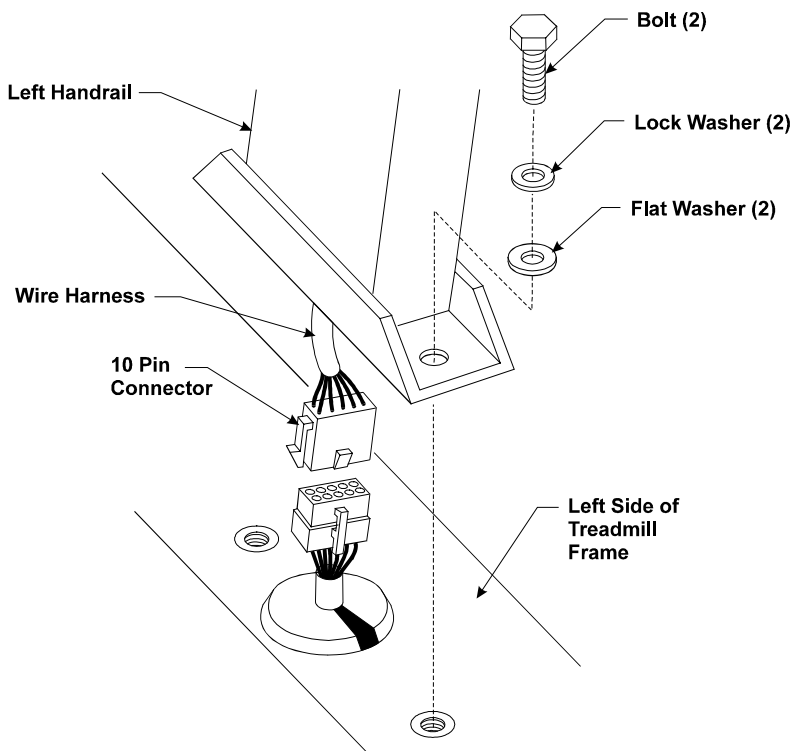
#### Step 6

Tie some string between the new WIRE HARNESS and the old WIRE HARNESS. Gently pull the old WIRE HARNESS through the HANDRAIL to replace it with the new one. (Both ends are FEMALE.)

#### Step 7

Reverse Steps 1 through 5 to return all parts to their proper position.

**NOTE: BE CAREFUL NOT TO PINCH ANY WIRES BETWEEN PARTS DURING ASSEMBLY OF THE TREADMILL.**





## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE STRIDING BELT

**Tools Required:** Phillips screwdriver, hex key wrench set, socket and ratchet set

**ATTENTION: THE DECK MUST BE REPLACED OR FLIPPED TO AN UNUSED SIDE WHENEVER INSTALLING A NEW STRIDING BELT. IF THE DECK IS TO BE FLIPPED, WIPE IT CLEAN WITH SOAP AND WATER PRIOR TO INSTALLATION.**

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Use a hex key wrench to remove the three SCREWS from each of the (user right side) FRONT and REAR FRAME CAPS. Remove the FRONT BELT GUARD.

#### Step 3

At the location where the FRONT FRAME CAP was removed is the BELT TENSIONING BOLT. The BOLT threads into a NYLON BLOCK which you can see through the slot in the FRAME above it. Measure and note the distance from the NYLON BLOCK to the end of the slot or mark the decal (if present) to locate the current position of the NYLON BLOCK where it meets the threaded portion of the TENSIONING BOLT.

#### Step 4

Slacken the STRIDING BELT for removal by turning the BELT TENSIONING BOLT counter-clockwise with a socket and ratchet wrench.

#### Step 5

Remove the two SCREWS securing the POWER CORD BRACKET to the FRAME. Remove the POWER CORD BRACKET and unplug the POWER CORD.

#### Step 6

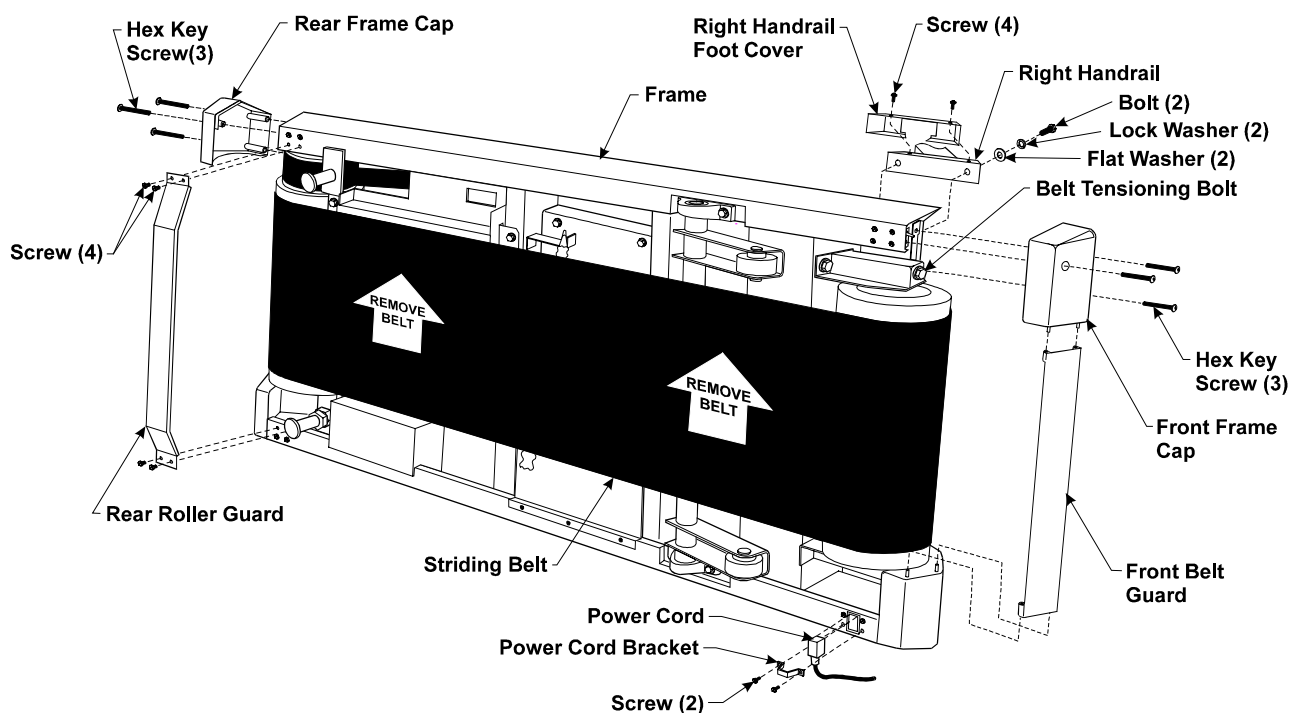
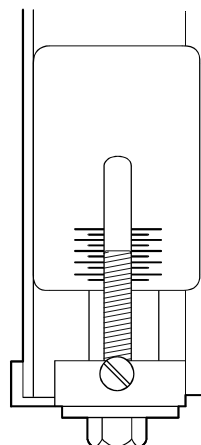
With the help of another person, **slowly** tilt the unit on to the user left side for access to the underside.

#### Step 7

Remove the four SCREWS securing the REAR ROLLER GUARD to the FRAME. Remove the GUARD and set it aside.

#### Step 8

Use a Phillips screwdriver to remove the four SCREWS securing the RIGHT HANDRAIL FOOT COVER to the RIGHT HANDRAIL. Remove the FOOT COVER.



(Continued)

## How To...REMOVE AND REPLACE THE STRIDING BELT (Continued )

### Step 9

Loosen and remove the two BOLTS and WASHERS securing the RIGHT HANDRAIL to the FRAME to allow passage of the STRIDING BELT between the RIGHT HANDRAIL and the FRAME.

**NOTE: TAPE THE BOTTOM OF THE STATIONARY LEG BEFORE PROCEEDING TO REMOVE THE STRIDING BELT. THIS WILL HELP PREVENT SCRATCHING THE BELT AS IT IS BEING INSTALLED.**

### Step 10

Maneuver the STRIDING BELT over the STATIONARY LEG and off both ROLLERS. If the STRIDING BELT was removed for the purpose of service to another part of the Treadmill, set the BELT aside in a safe place to avoid the possibility of inadvertently scratching or puncturing it.

### Step 11

If the STRIDING BELT was removed for service to the machine and will be reinstalled **or** if a worn STRIDING BELT was removed to be replaced by a new STRIDING BELT it must be determined in which direction the BELT will be positioned to assure that it rotates in the proper direction for which it was designed. Follow this three step cross-checking approach to insure the STRIDING BELT is being installed properly:

1. Check that the arrows stamped on the underside of the STRIDING BELT point in the direction of BELT rotation.
2. If the STRIDING BELT bears the 'Lifestride' or 'Life Fitness' logo, it should be installed so it is readable to a person using the Treadmill.
3. Find the seam on the **underside** of the STRIDING BELT. Place your thumb on the top of the BELT and your forefinger on the bottom of the BELT at the seam. You will notice, on the **top face** of the BELT, a shorter and longer raised edge on either side of the seam. The shorter raised edge should always face towards the front of the Treadmill.

### Step 12

Reinstall the previous STRIDING BELT or the new BELT by reversing Steps 9 through 5 (**in that exact order**) to partially reassemble Treadmill.

### Step 13

With the machine now upright, center the STRIDING BELT over the FRONT and REAR ROLLERS. Check to make sure the TRACKING SENSOR SPRING is not captured on top of the STRIDING BELT. Reinstall the REAR FRAME CAP.

### Step 14

Re-tension the STRIDING BELT with the TENSIONING BOLT (turning it clockwise) to 1/16" (0.4cm) less of the original location of the NYLON BLOCK noted in Step 3.

### Step 15

The Treadmill is now ready to be plugged in and turned on, **but not ready for use**. The STRIDING BELT must have the wax system reset before use. Refer to the CPU chart located in the "How To...REMOVE AND REPLACE THE CONTROL (CPU) BOARD" section in this manual to reset the wax system.

**NOTE: THE WAX DELAY MUST BE TURNED "ON"**

### Step 15

The STRIDING BELT must be properly adjusted and tensioned at this point. Proceed to "How To...ADJUST AND TENSION THE STRIDING BELT" and follow the instructions in the section which describes the particular servicing you are doing to the unit.

- A. **Tensioning the Existing Striding Belt**
- B. **Re-tensioning the Existing Striding Belt after Removal**
- C. **Replacing the Striding Belt with a New Striding Belt**

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE DECK

**Tools Required:** Hex key wrench set, socket and ratchet set

**ATTENTION: IF THE DECK IS TO BE REPLACED OR FLIPPED TO AN UNUSED SIDE, THE STRIDING BELT MUST BE REPLACED AT THIS TIME. IF THE DECK IS TO BE FLIPPED, WIPE IT CLEAN WITH SOAP AND WATER PRIOR TO INSTALLATION.**

#### Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

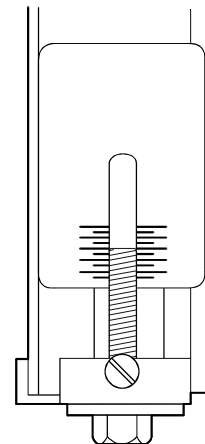
**NOTE: THE TENSION OF THE STRIDING BELT MUST BE SLACKENED TO ALLOW ACCESS TO THE DECK.**

#### Step 2

Use a hex key wrench to loosen and remove the three SCREWS from the right END CAP and remove the CAP.

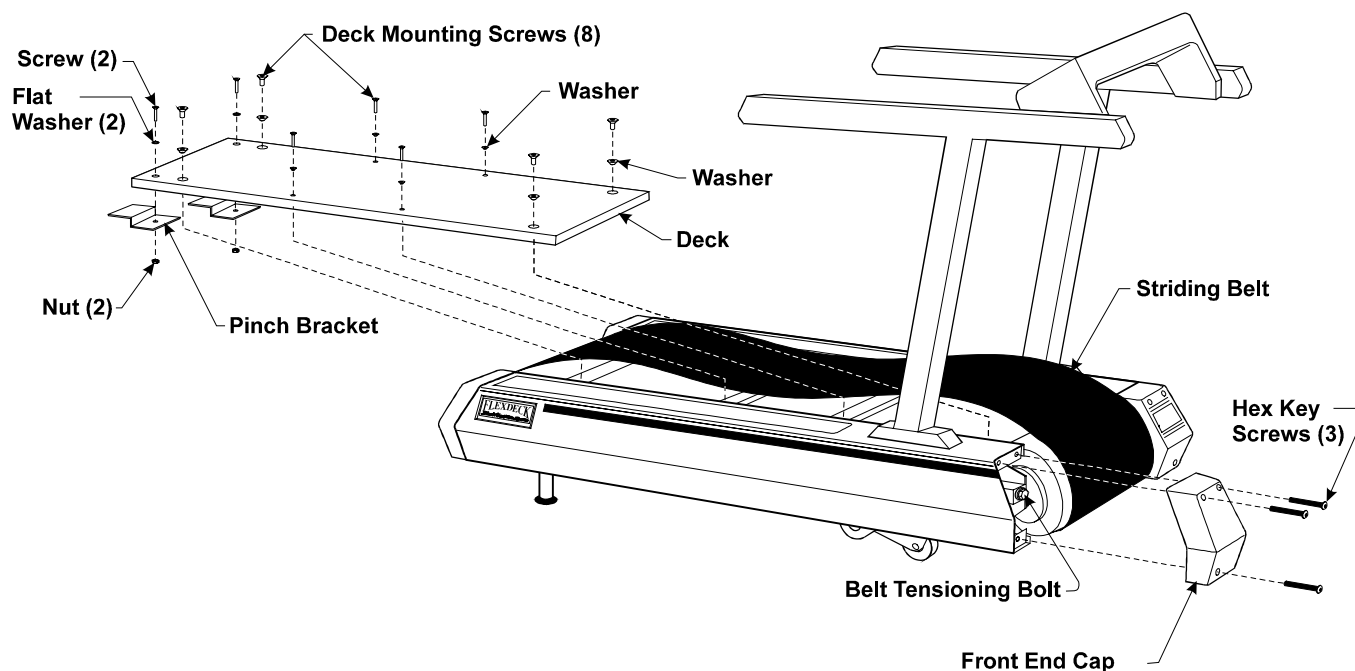
#### Step 3

At the location where the END CAP was removed is the BELT TENSIONING BOLT. The BOLT threads into a NYLON BLOCK which you can see through the slot in the FRAME above it. Measure and note the distance from the NYLON BLOCK to the end of the slot or mark the decal (if present) to locate the current position of the NYLON BLOCK where it meets the threaded portion of the TENSIONING BOLT. Use a socket and ratchet wrench to turn the BELT TENSIONING BOLT counter-clockwise until the STRIDING BELT is slackened.



#### Step 4

Once the STRIDING BELT has been sufficiently slackened to the right, use hex key wrenches to remove the four corner MOUNTING SCREWS and the four center MOUNTING SCREWS from the DECK.



(Continued)

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To...REMOVE AND REPLACE THE DECK ( Continued )**

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#### **Step 5**

Carefully lift the worn DECK and remove it from the machine. Transfer the two PINCH BRACKETS to the new DECK. Slide the new DECK into position on the Treadmill.

#### **Step 6**

Insert and tighten the four corner MOUNTING SCREWS and the four center MOUNTING SCREWS with the appropriate hex key wrenches.

#### **Step 7**

Center the STRIDING BELT over the FRONT and REAR ROLLERS. Check to make sure the TRACKING SENSOR SPRING is not captured on top of the STRIDING BELT. Reinstall the REAR FRAME CAP.

#### **Step 8**

Re-tension the STRIDING BELT with the TENSIONING BOLT (turning it clockwise) to 1/16" (0.4cm) less of the original location of the NYLON BLOCK noted in Step 3.

#### **Step 9**

Turn the power ON at the ON/OFF switch and by plugging the machine into the electrical outlet.

**NOTE: STEP OFF THE STRIDING BELT AS YOU WILL BE ACTIVATING THE DRIVE MOTOR IN THE NEXT STEP.**

#### **Step 10**

Use the '**Service Mode**' in the DISPLAY CONSOLE to properly center the STRIDING BELT. Perform the following procedure to achieve this.

##### **Enter the Service Mode by:**

1. Pressing the **START** key once.
2. Pressing the **CLEAR** key twice.
3. Pressing **9-1-9** on the numerical keypad.  
( **MANUAL, 9-1-9** if connected to Lifecenter )
4. Pressing the **START** key.
5. Pressing the **RANDOM** key.

**WARNING: YOU ARE NOW IN THE SERVICE MODE PROGRAM. ONLY PERFORM THE STEPS MENTIONED TO AVOID HARMING THE OTHER PROGRAMS.**

#### **Step 11**

Press the **SPEED INCREASE** key to activate the DRIVE MOTOR and have the BELT go through a regular pace. Increase the speed to a recommended 3 MPH (4.83kph) to have the machine track automatically.

#### **Step 12**

Once the message 'BELT WITHIN LIMITS' appears in the DISPLAY CONSOLE you can press the **CLEAR** key to stop the machine. Installation is now complete.

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE FRONT ROLLER

**Tools Required:** Removable locktite, standard screwdriver, hex key wrench set, wrench set, socket & ratchet set

#### Step 1

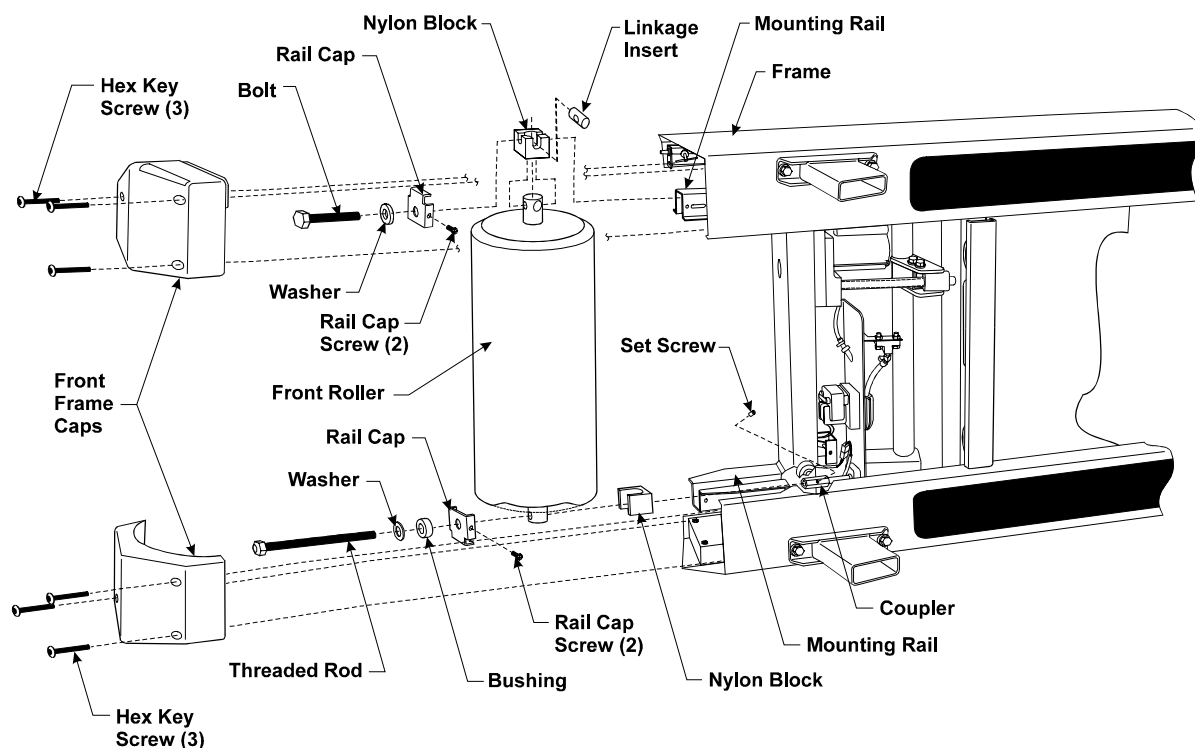
Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 2

Use a hex key wrench to remove the three SCREWS from each of the FRONT FRAME CAPS.

#### Step 3

Remove the STRIDING BELT ( See 'How To...' ) and DECK ( See "How To..." ). Leave the machine leaning on its left side.



#### Step 4

Use a hex key wrench to loosen the SET SCREW nearest the worn FRONT ROLLER on the COUPLER connecting the TRACKING MOTOR to the FRONT ROLLER.

#### Step 5

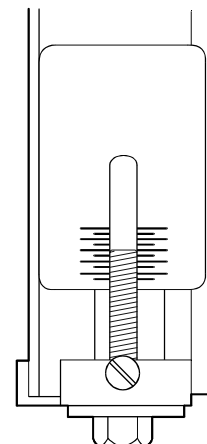
The FRONT ROLLER is positioned at each end within a MOUNTING RAIL. On the end of each MOUNTING RAIL is a RAIL CAP. Remove the two SCREWS securing each of the CAPS in position.

#### Step 6

**Slowly** push the FRONT ROLLER away from the unit to disengage the THREADED ROD from the COUPLER.

**NOTE: BEFORE REMOVING THE THREADED ROD AND LINKAGE FROM THE ROLLER, MEASURE THE NUT END OF THE ROD TO THE END OF THE NYLON BLOCK, AS WELL AS THE BOLT HEAD TO THE NYLON BLOCK ON THE OPPOSITE SIDE. THESE DIMENSIONS MUST BE MAINTAINED WHEN REINSTALLING THE ITEMS ON THE NEW FRONT ROLLER.**

(Continued)



Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## How To... REMOVE AND REPLACE THE FRONT ROLLER (Continued)

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### Step 7

Remove the remaining HARDWARE/LINKAGE from the worn FRONT ROLLER and transfer it to the new FRONT ROLLER. Once all of the hardware has been transferred, remember to re-establish the distance from the NUT END of the THREADED ROD to the end of the NYLON BLOCK and from the BOLT HEAD to the NYLON BLOCK on the new ROLLER.

### Step 8

Position the new ROLLER assembly and carefully reinsert it into the ROLLER MOUNTING RAILS.

### Step 9

Align the THREADED ROD to the COUPLER and fully insert. Lube the SET SCREW with removable LOCKTITE and use a hex key wrench to retighten it.

### Step 10

Reinstall the two RAILCAPS onto the MOUNTING RAILS using the two SCREWS and a standard screwdriver.

### Step 11

Reverse steps 1 through 3 to return all parts to their proper positions.

## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

### **How To... REMOVE AND REPLACE THE REAR ROLLER / ROLLER BELT**

**Tools Required:** Hex key wrench set, socket and ratchet set, torque wrench

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#### **Step 1**

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### **Step 2**

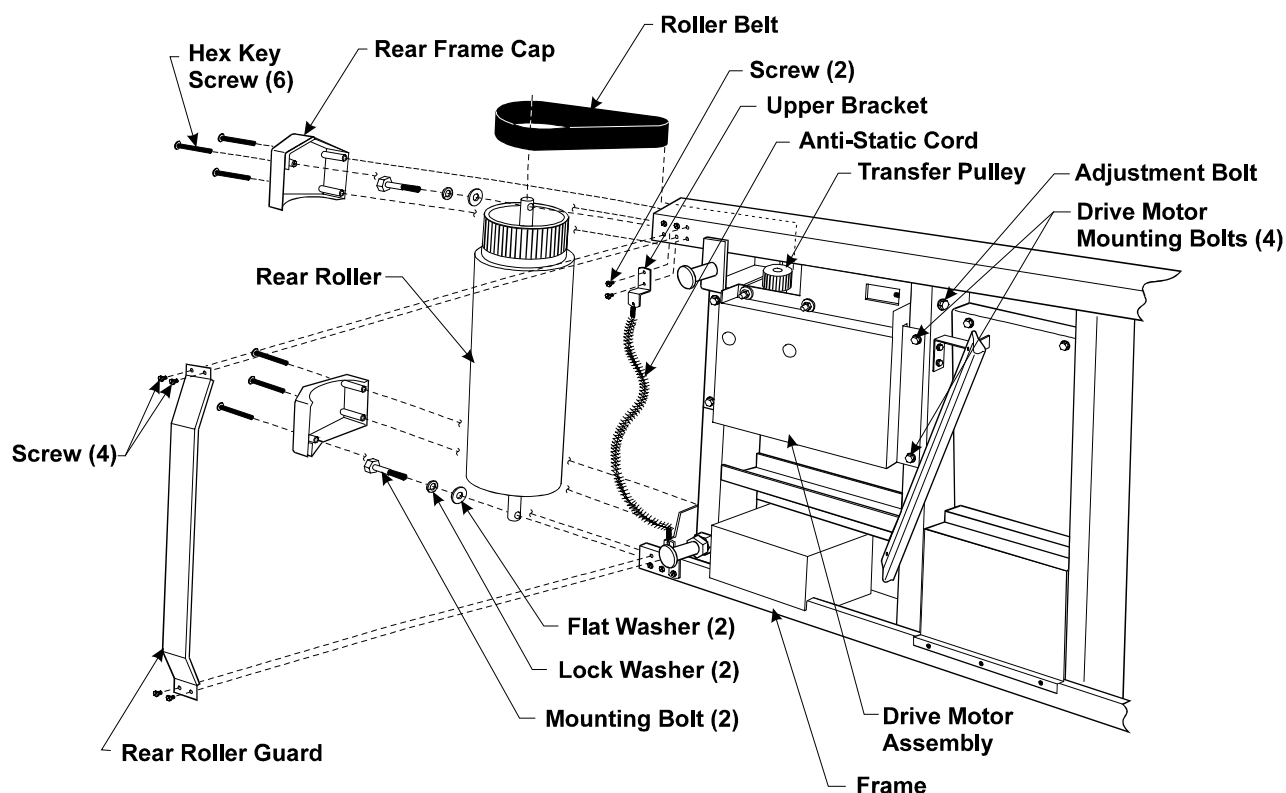
Use a hex key wrench to remove the three SCREWS from each of the REAR FRAME CAPS.

#### **Step 3**

Remove the STRIDING BELT (See "How To..."). Leave the machine leaning on its left side.

#### **Step 4**

Remove the two SCREWS from the UPPER BRACKET of the ANTI-STATIC CORD to the FRAME and move the CORD out of the way.



#### **Step 5**

Use a socket and ratchet wrench to loosen the four DRIVE MOTOR MOUNTING BOLTS and the ADJUSTMENT BOLT.

#### **Step 6**

Slide the DRIVE MOTOR ASSEMBLY towards the REAR ROLLER and loop the ROLLER BELT off the TRANSFER PULLEY.

#### **Step 7**

Remove the four SCREWS securing the REAR ROLLER GUARD to the FRAME. Remove the GUARD and set it aside.

#### **Step 8**

Use a socket and ratchet wrench to loosen and remove the two MOUNTING BOLTS and four WASHERS securing the worn REAR ROLLER to the FRAME.

(Continued)

***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

## How To...REMOVE AND REPLACE THE REAR ROLLER/ROLLER BELT (Cont.)

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### Step 9

Place the new ROLLER BELT over the TRANSFER PULLEY.

### Step 10

Position the REAR ROLLER in place and loop the ROLLER BELT over the drive end of the REAR ROLLER, reinsert the two MOUNTING BOLTS and the four WASHERS and tighten with a socket and ratchet wrench to 20-25 ft/lbs. of torque.

### Step 11

Slide the DRIVE MOTOR ASSEMBLY back into position (check set gauge).

### Step 12

Reinstall the STRIDING BELT and set the proper tension (See "How To...") according to instructions. Once the STRIDING BELT has been properly tensioned, tighten the ADJUSTMENT BOLT on the DRIVE MOTOR ASSEMBLY with a wrench to a ROLLER BELT tension of 80 ft./lbs

### Step 13

Once the ROLLER BELT has been properly tensioned, tighten the four MOUNTING BOLTS on the new DRIVE MOTOR to a torque of 28-30 ft./lbs.

### Step 14

Reverse Steps 1 through 4 to return all parts to their proper positions.

### Step 15

Complete the installation of the FRAME CAPS and the FRONT AXLE. The unit is now ready for use.



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE TRACKING SENSOR SPRING ASSEMBLY

**Tools Required:** Standard Screwdriver

#### Step 1

The unit must be at minimum of 5.0% incline to have access to the TRACKING SENSOR SPRING ASSEMBLY. Perform the following procedure to achieve this.

**Enter the 'Service Mode' by:**

1. Pressing the **START** key once.
2. Pressing the **CLEAR** key twice.
3. Pressing **919** on the numerical keypad. ( **MANUAL, 919** if connected to Lifecenter ).
4. Pressing the **START** key.
5. Press the **HILL** key so it's L.E.D is lit.

**WARNING: YOU ARE NOW IN THE SERVICE MODE PROGRAM. ONLY PERFORM THE STEPS MENTIONED TO AVOID HARMING THE OTHER PROGRAMS.**

#### Step 2

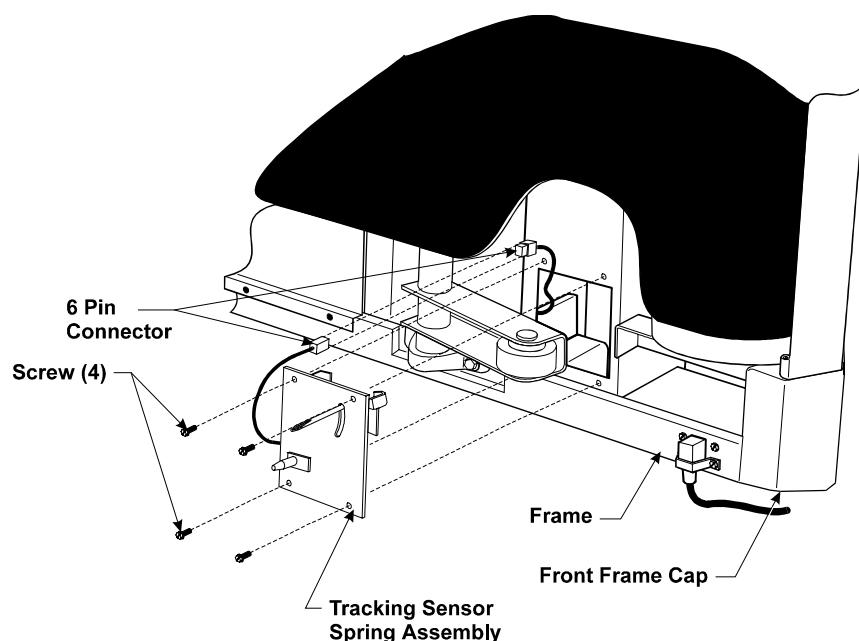
Press the **INCLINE UP** key until 5.0% appears in the INCLINE (%) window.

#### Step 3

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

#### Step 4

With the help of another person, **slowly** tilt the unit on to it's left side.



#### Step 5

With a standard screwdriver, loosen and remove the four **SCREWS** which secure the **ASSEMBLY** to the **FRAME** of the treadmill. Remove the worn **TRACKING SENSOR SPRING ASSEMBLY**.

#### Step 6

Disconnect the **6 PIN CONNECTOR** leading to the worn **TRACKING SENSOR SPRING ASSEMBLY**.

#### Step 7

Position a new **TRACKING SENSOR SPRING ASSEMBLY** in place, reinsert the four **SCREWS** and tighten with a standard screwdriver. Reconnect the **6 PIN CONNECTOR** to the new **ASSEMBLY**.

#### Step 8

With the help of another person, **slowly** tilt the machine back down to it's working position.

#### Step 9

Plug the unit back into the wall outlet. Turn the power **ON** at the **ON/OFF** switch, it will lower itself when powering up. The unit is now ready for operation.

## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills*** **How To... REMOVE AND REPLACE THE HANDRAIL FOOT COVER**

**Tool Required:** Phillips screwdriver

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### **Step 1**

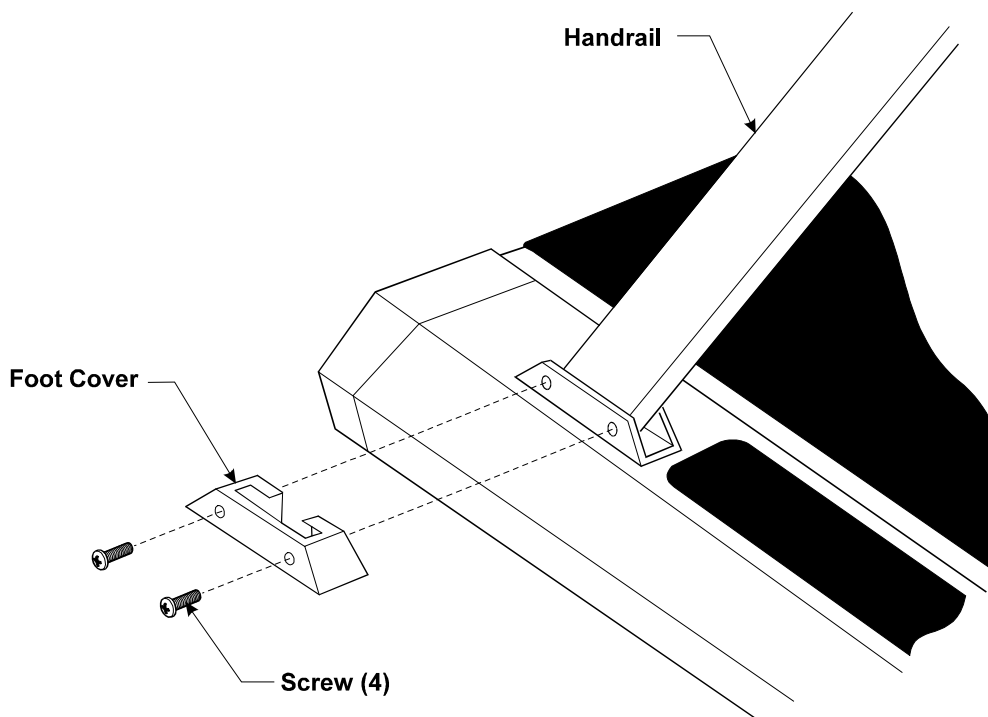
Use a Phillips screwdriver to remove the four SCREWS from the worn HANDRAIL FOOT COVER.

### **Step 2**

Remove the worn FOOT COVER. Carefully bend the new FOOT COVER in the center and snap it over the HANDRAIL lowering it in place.

### **Step 3**

Secure the new HANDRAIL FOOT COVER with the four SCREWS and a Phillips screwdriver.



## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

### **How To... REMOVE AND REPLACE THE TRACKING MOTOR**

**Tools Required:** Hex key wrench set, socket and ratchet wrench set, torque wrench, removable LOCKTITE

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#### **Step 1**

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

#### **Step 2**

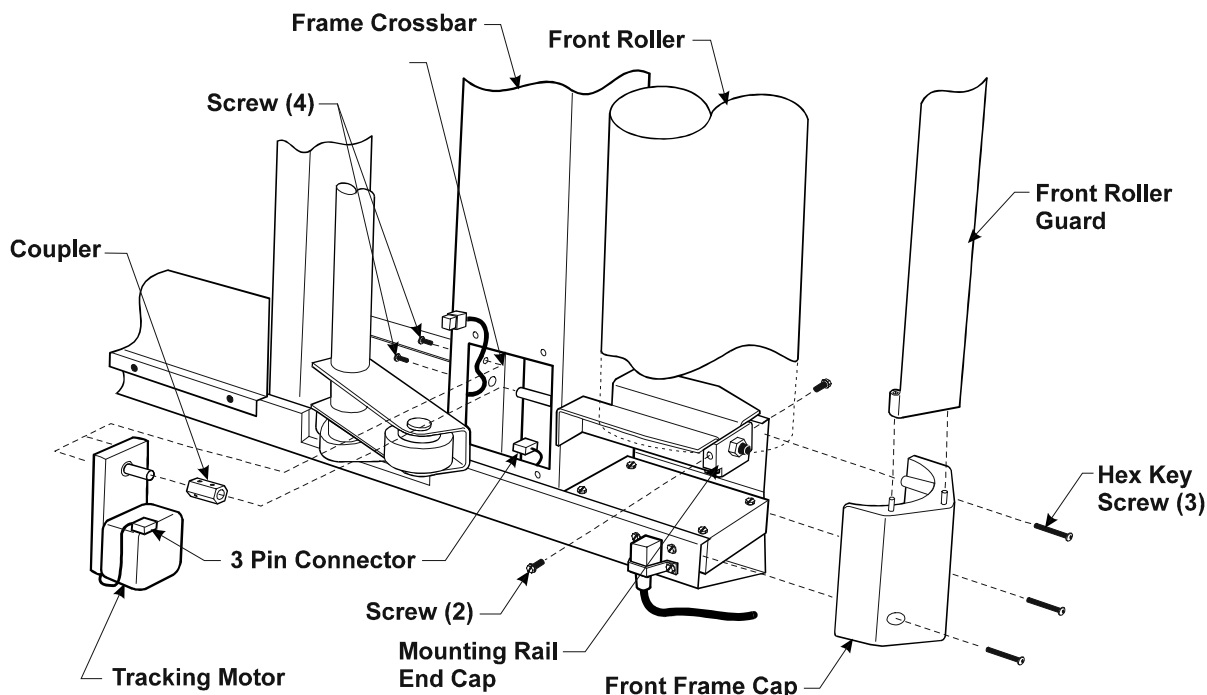
Use a hex key wrench to remove the three **SCREWS** from each of the user **FRONT FRAME CAPS**.

#### **Step 3**

Remove the **STRIDING BELT** (See "How To...") and **DECK** (See "How To..."). Leave the machine leaning on its left side.

#### **Step 4**

Remove the **TRACKING SENSOR SPRING ASSEMBLY** (See "How To...").



#### **Step 5**

Disconnect the **3 PIN CONNECTOR** leading to the worn **TRACKING MOTOR**.

#### **Step 6**

Use a hex key wrench to loosen the two **SET SCREWS** on the **COUPLER** side nearest to the worn **TRACKING MOTOR** and away from the **FRONT ROLLER**.

#### **Step 7**

Remove the left **FRONT FRAME CAP**. The **FRONT ROLLER** is positioned at each end within a **MOUNTING RAIL**. On the end of each **MOUNTING RAIL** is an **END CAP**. Remove the two **SCREWS** securing the **END CAP** closest to the floor and **slowly** push that end of the **FRONT ROLLER** away from the unit to disengage the **COUPLER** from the **TRACKING MOTOR SHAFT**.

#### **Step 8**

Loosen and remove the four **SCREWS** from the outside of the **FRAME CROSSBAR** securing the worn **TRACKING MOTOR** to the treadmill **FRAME**. Remove the worn **TRACKING MOTOR** and position a new one in its place. Secure to the **FRAME CROSSBAR** using the four **SCREWS**.

#### **Step 9**

Align the **TRACKING MOTOR SHAFT** to the **COUPLER** and fully insert by pushing the bottom of the **FRONT ROLLER** back towards the treadmill. Lube the two **SET SCREWS** with removable **LOCKTITE** and use a hex key wrench to retighten them.

#### **Step 10**

Reconnect the **3 PIN CONNECTOR** to the new **TRACKING MOTOR**.

#### **Step 11**

Reverse steps 1 through 4 to return all parts to their proper positions.

***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

# How To... REMOVE AND REPLACE THE LIFESPRINGS

**Tools Required:** Hex key wrench set

## Step 1

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

## Step 2

Remove the DECK.  
(See "How To...".)

## Step 3

Remove the two DECK CHANNELS and set them aside to be reinstalled later.

## Step 4

Use a hex key wrench to remove the SCREW and WASHER securing the worn LIFESPRING to the FRAME.

## Step 5

Insert the SCREW and WASHER into the hole in the new LIFESPRING. Position the LIFESPRING ASSEMBLY in place on the FRAME and secure with a hex key wrench.

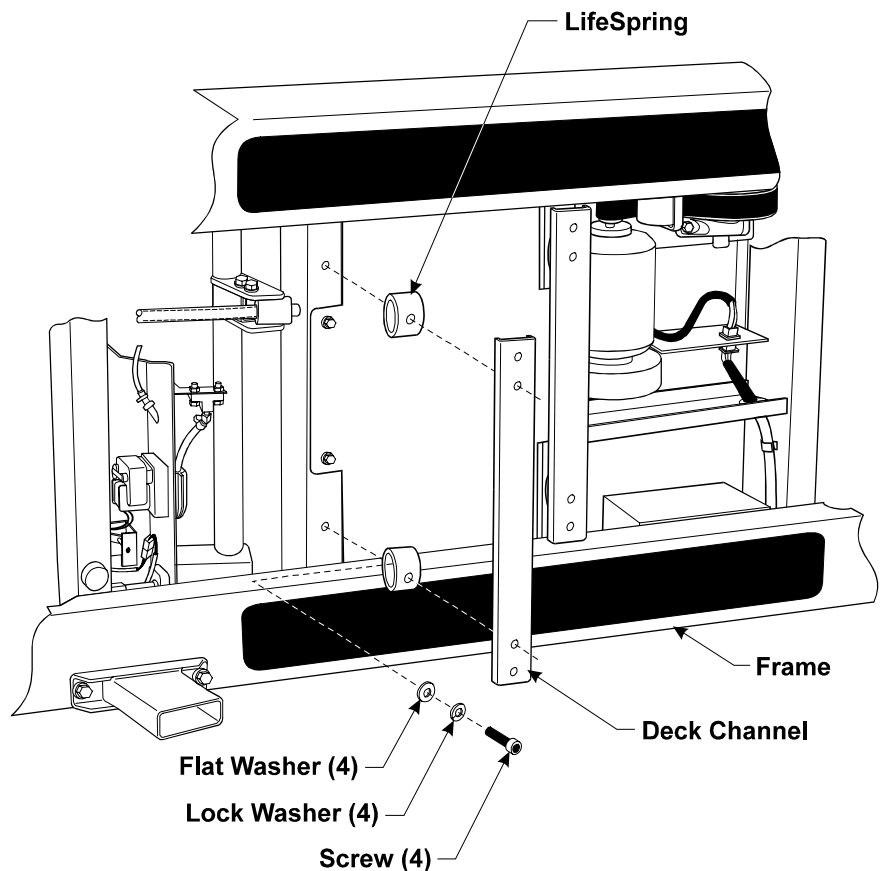
**NOTE: APPLY LOCKTITE TO THE SCREW PRIOR TO SECURING THE NEW LIFESPRING INTO POSITION TO AVOID ANY LOOSENING OF THE SCREW.**

## Step 6

Slide the two DECK CHANNELS back into place.

## Step 7

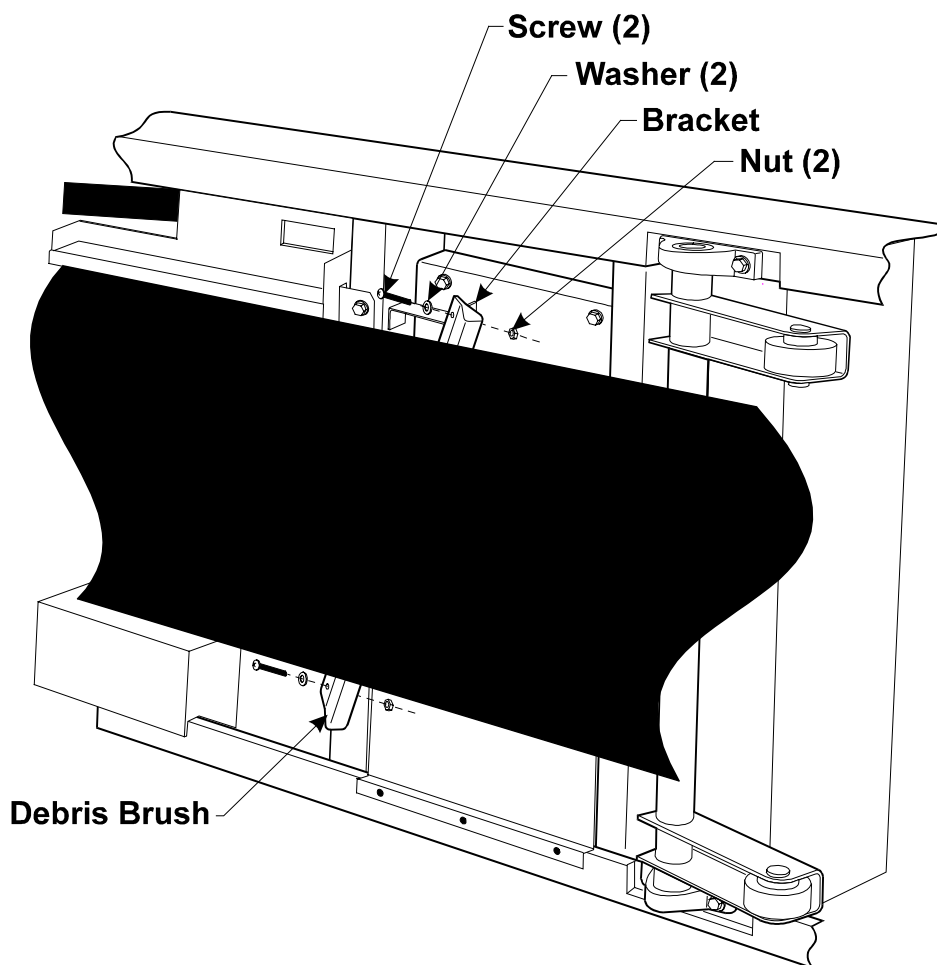
Reverse Steps 1 and 2 to return all parts to their proper position.



## ***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills*** **How To... REMOVE AND REPLACE THE DEBRIS BRUSH**

**Tools Required:** Phillips screwdriver, 5/16" wrench

---



### **Step 1**

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

### **Step 2**

With the help of another person, **slowly** tilt the unit on its side.

### **Step 3**

With a Phillips screwdriver and a 5/16" wrench, loosen and remove the two SCREWS, three WASHERS and two NUTS securing the DEBRIS BRUSH to the BRACKETS.

**NOTE: INSPECT THE AREA BETWEEN THE STRIDING BELT FOR DEBRIS.**

### **Step 4**

Position the new DEBRIS BRUSH between the STRIDING BELT and FRAME. Insert a SCREW and WASHER through the round hole first then the slotted hole at the other end. Tighten the two SCREWS and NUTS with a Phillips screwdriver and a 5/16" wrench.

### **Step 5**

Reverse Steps 1 and 2 to return all parts to their proper positions.

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

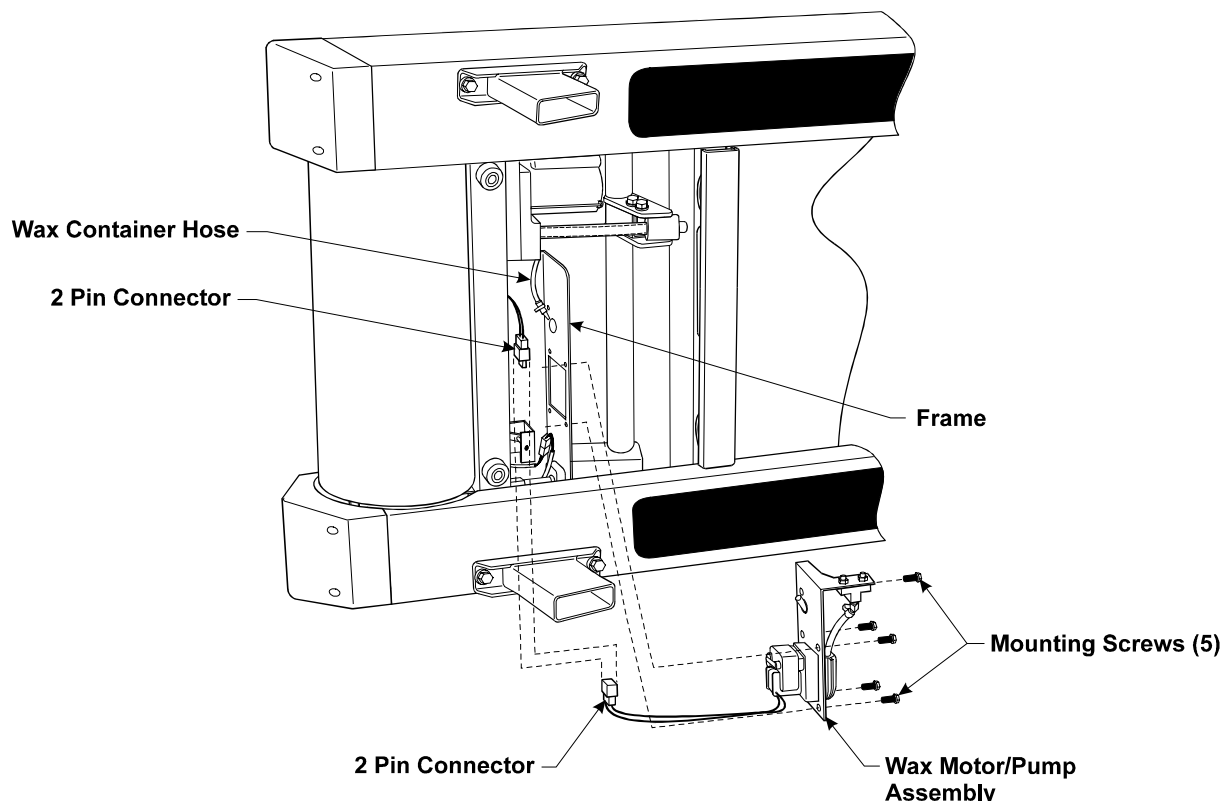
### **How To...REMOVE AND REPLACE THE WAX MOTOR /PUMP ASSEMBLY**

**Tools Required:** Socket and ratchet set, wire cutting tool, wire ties

---

#### **Step 1**

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.



#### **Step 2**

Remove the STRIDING BELT (See "How To...") and DECK (See "How To..."). Leave the unit on its left side.

#### **Step 3**

Disconnect the 2-PIN CONNECTOR leading to the WAX MOTOR/PUMP ASSEMBLY.

#### **Step 4**

With your fingers, remove the HOSE CLAMP on the barbed fitting leading to the WAX CONTAINER. Remove the WAX CONTAINER HOSE and seal it off temporarily to prevent spillage.

#### **Step 5**

Use a socket to loosen and remove the five MOUNTING SCREWS securing the worn WAX MOTOR/PUMP ASSEMBLY to the FRAME. Remove the worn WAX MOTOR/PUMP ASSEMBLY and position a new one in its place.

#### **Step 6**

Use a socket to reinstall and secure the five MOUNTING SCREWS of the new WAX MOTOR/PUMP ASSEMBLY to the treadmill FRAME. Reverse Steps 3 and 4 to complete assembly connections.

**NOTE: THIS IS NORMALLY AN OPPORTUNE TIME TO INSPECT THE WAX SPRAY NOZZLE. PRESS THE SPRAY NOZZLE IN AND TWIST IT 1/4 TURN TO REMOVE. CLEAN WITH WARM WATER OR REPLACE THE NOZZLE AS DEEMED NECESSARY.**

#### **Step 7**

Reverse Steps 1 and 2 to return all parts to their proper positions.

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE WAX CONTAINER KIT

**Tools Required:** Socket and ratchet set, two 7/16" wrenches, wire cutting tool, wire ties

#### Step 1

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

#### Step 2

Remove the STRIDING BELT (See "How To...") and the DECK (See "How To..."). Leave the unit on its left side.

#### Step 3

Use a wire cutting tool to cut the WIRE TIES securing the WAXER HOSE to the FRAME.

#### Step 4

With your fingers, remove the HOSE CLAMP on the BARBED-FITTING, and seal it off to prevent spillage. Remove the WAX CONTAINER HOSE from the BARBED-FITTING.

#### Step 5

Loosen and remove the four MOUNTING BOLTS securing the WAX CONTAINER, COVER and TRAY in place on the treadmill FRAME.

**NOTE: REMOVE THE ENTIRE ASSEMBLY FROM THE TREADMILL AND SET ASIDE.**

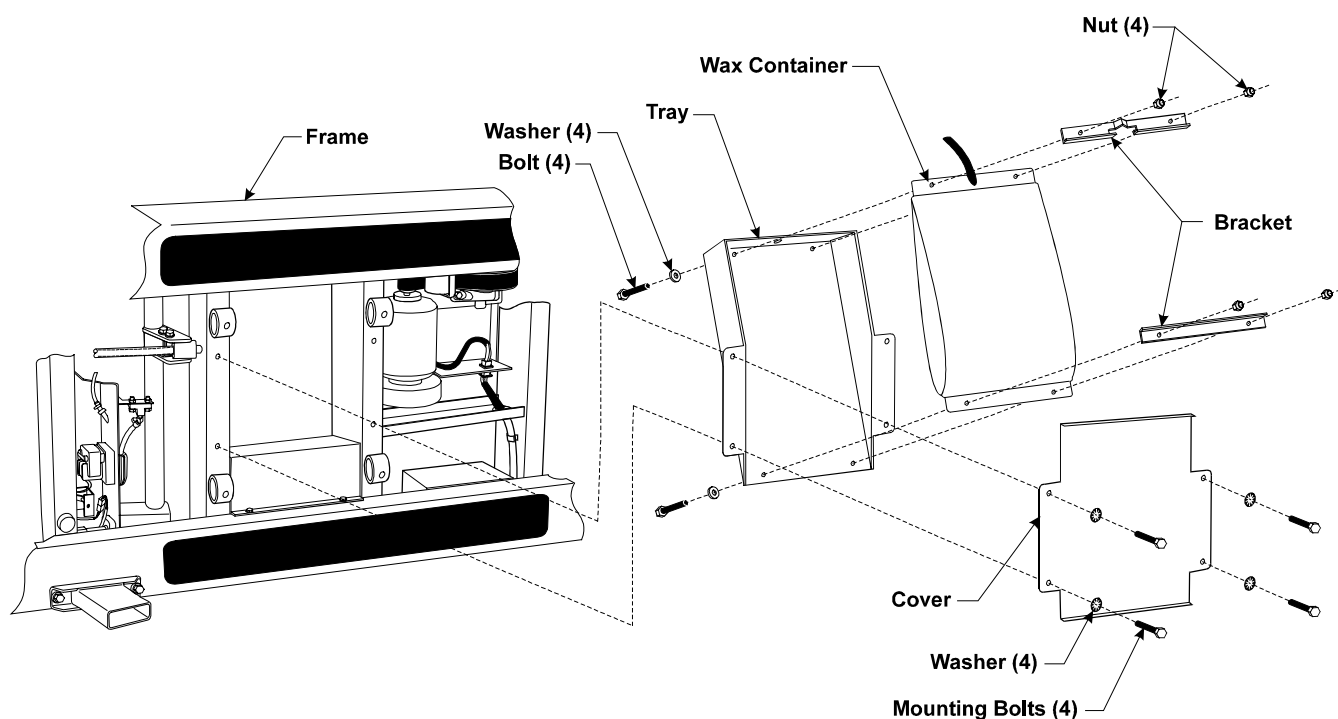
#### Step 6

Use two 7/16" wrenches to loosen and remove the four BOLTS and NUTS securing the two BRACKETS through the WAX CONTAINER into the TRAY.

#### Step 7

Lift the worn WAX CONTAINER with attached HOSE out of the TRAY and replace it with a new WAX CONTAINER and HOSE assembly.

**NOTE: THE WAX CONTAINER HOSE LENGTH VARIES IN THE MODEL 9500 SERIES. ROUTE THE HOSE THROUGH THE HOLE IN THE TRAY BEFORE INSTALLING THE COVER.**



*(Continued)*

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To... REMOVE AND REPLACE THE WAX CONTAINER (Continued)**

**NOTE: THE NEW WAX CONTAINER DOES NOT REQUIRE THE TWO BRACKETS. DISCARD AND USE THE TWO WASHERS.**

#### **Step 8**

Align the two WASHERS with the holes in the new WAX CONTAINER and insert the two BOLTS through both items. Secure the two items to the TRAY with the two NUTS and tighten them with the two 7/16" wrenches.

#### **Step 9**

Place the COVER over the new WAX CONTAINER and position the entire assembly in the treadmill FRAME. Reinstall the four MOUNTING BOLTS and tighten them with the 7/16" wrench.

#### **Step 10**

Connect the new WAX CONTAINER HOSE to the BARBED-FITTING and press the HOSE CLAMP tightly over the connection.

**NOTE: THIS IS NORMALLY AN OPPORTUNE TIME TO INSPECT THE WAX SPRAY NOZZLE. PRESS THE SPRAY NOZZLE IN AND TWIST IT 1/4 TURN TO REMOVE. CLEAN WITH WARM WATER OR REPLACE THE SPRAY NOZZLE AS DEEMED NECESSARY.**

#### **Step 11**

Reverse Steps 1 through 3 to return all parts to their proper positions.



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE POWER MODULE

**Tools Required:** Standard screwdriver, 5/16" wrench, scribe, socket and ratchet set

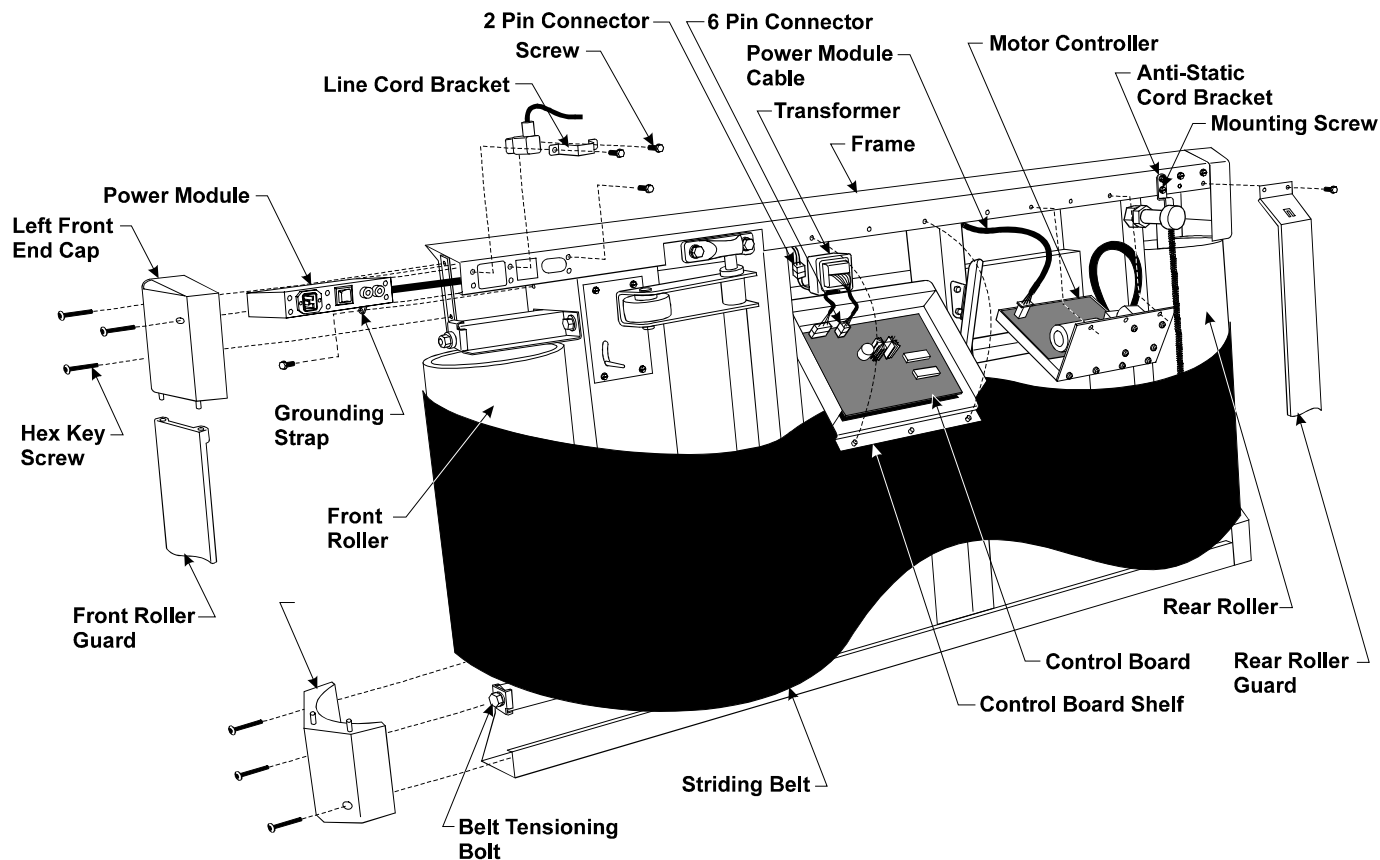
**WARNING: FAILURE TO OBSERVE SAFE PROCEDURES WHEN SERVICING THIS UNIT COULD RESULT IN INJURY FROM ELECTRICAL SHOCK.**

#### Step 1

Turn the power OFF at the ON/OFF switch and then unplug the unit from the electrical outlet.

#### Step 2

With the help of another person, **slowly** tilt the unit on its right side.



#### Step 3

Ground yourself to the machine with a disposable anti-static strap.

#### Step 4

Using a hex key wrench, remove the three SCREWS from each of the RIGHT and LEFT FRONT END CAPS. Remove the FRONT BELT GUARD.

#### Step 5

Remove the four SCREWS securing the REAR ROLLER GUARD to the FRAME. Remove the GUARD and set it aside.

#### Step 6

At the location where the FRONT FRAME CAP was removed is the BELT TENSIONING BOLT. The BOLT threads into a NYLON BLOCK which you can see through the slot in the FRAME above it. Measure and note the distance from the NYLON BLOCK to the end of the slot or mark the decal (if present) to locate the current position of the NYLON BLOCK where it meets the threaded portion of the TENSIONING BOLT.

(Continued)

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE POWER MODULE (Continued)

#### Step 7

Slacken the STRIDING BELT by turning the BELT TENSIONING BOLT counter-clockwise with a socket and ratchet wrench. Slide BELT down towards the floor.

#### Step 8

Using a standard screwdriver, remove the two SCREWS securing the LINE CORD BRACKET and set aside.

#### Step 9

Remove six SCREWS securing the POWER MODULE to the FRAME.

#### Step 10

Remove the GROUNDING STRAP from the POWER MODULE (flat Yellow Wire).

#### Step 11

Use a Standard screwdriver to "pop" the three PLASTIC RIVETS holding the CONTROL BOARD SHELF in place, pull the SHELF down and towards you. It is supported by hinges.

**NOTE THE LOCATION OF ALL CONNECTORS AND WIRE TIES.**

#### Step 12

Locate POWER MODULE CABLE and disconnect the 2 PIN CONNECTOR to TRANSFORMER and the 6 PIN CONNECTOR to CONTROL BOARD.

#### Step 13

With a 5/16" wrench, loosen and remove the 7 screws securing the MOTOR CONTROLLER. Position MOTOR CONTROLLER out and disconnect POWER MODULE CABLE.

#### Step 14

Using wire cutters, cut and remove the wire ties securing the cable to the FRAME.

#### Step 15

Carefully pull POWER MODULE CABLE out from the front of the unit.

**NOTE THE LOCATION OF THE PLASTIC GROMMET BY THE MOTOR CONTROLLER.  
THIS PROTECTS THE CABLE FROM BEING CUT BY THE FRAME.**

#### Step 16

Place the new Power Module and Cable Assembly in position and reverse Steps 8 through 14 to return all parts to proper position.

#### Step 17

With the help of another person, **slowly** tilt the unit back to an upright position.

#### Step 18

With the machine now upright, center the STRIDING BELT over the FRONT and REAR ROLLERS. Check to make sure the TRACKING SENSOR SPRING is not captured on top of the STRIDING BELT.

#### Step 19

Re-tension the STRIDING BELT with the TENSIONING BOLT (turning it clockwise) to 1/16" (0.4cm) less of the original location of the NYLON BLOCK noted in Step 3.

#### Step 20

The LifeFitness Treadmill is now ready to be plugged in and turned on, **but not ready for use**. The STRIDING BELT must be properly adjusted and tensioned at this point. Proceed to "How To...ADJUST AND TENSION THE STRIDING BELT" and follow the instructions in the section which describes the particular servicing you are doing to the unit.

- A. Tensioning the Existing Striding Belt**
- B. Re-tensioning the Existing Striding Belt after Removal**
- C. Replacing the Striding Belt with a New Striding Belt**

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To... REMOVE AND REPLACE THE CONTROL (CPU) BOARD

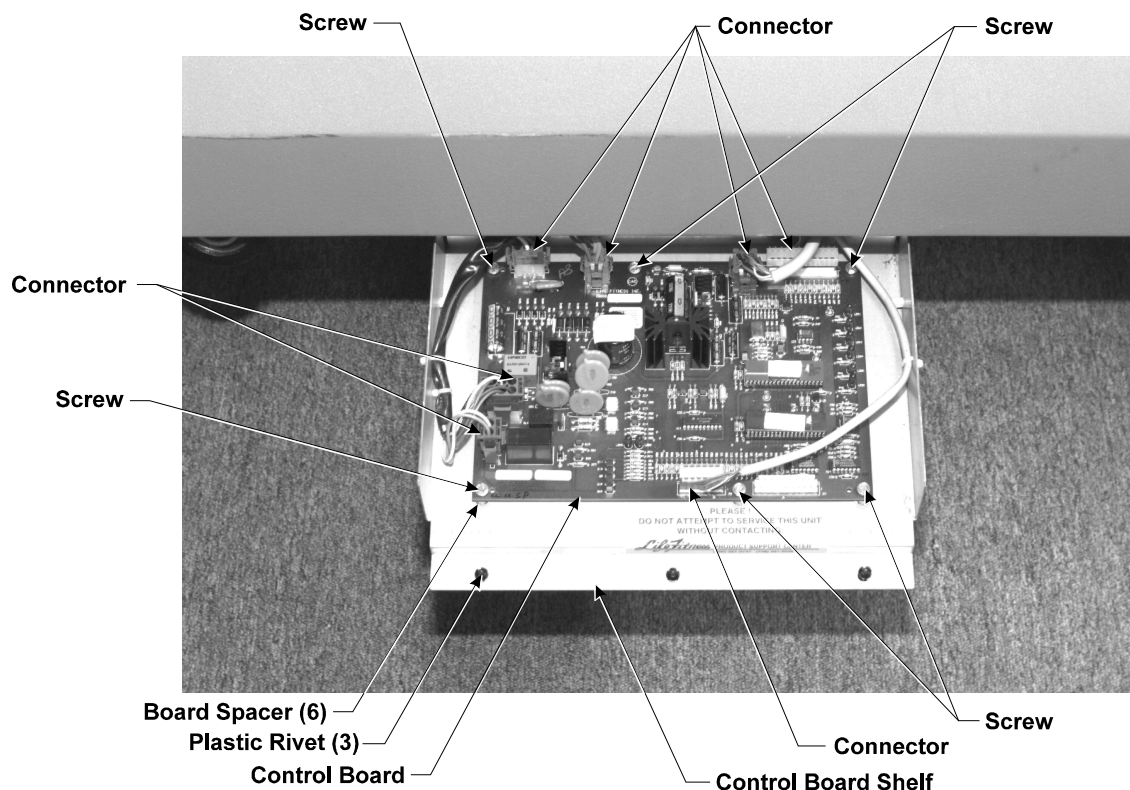
**Tools Required:** Standard screwdriver

**WARNING: FAILURE TO OBSERVE SAFE PROCEDURES WHEN SERVICING THIS UNIT  
COULD RESULT IN INJURY FROM ELECTRICAL SHOCK.**

#### Step 1

The current WAXING information on the existing CONTROL BOARD must be recorded for later transfer to the new CONTROL BOARD. Proceed as follows:

- A. Enter into the **SERVICE MENU** by pressing **919, ENTER (MANUAL, 919, ENTER** if connected to Lifecenter).
- B. Record the Treadmill TOTAL MILES (KILOMETERS) and HOURS for your own records. (This information can not be transferred to the new CPU BOARD.)
- C. Press the **FIT TEST PROGRAM**. The DISPLAY CONSOLE will show the "NUMBER OF TIMES WAXED" and the "PERCENTAGE OF WAX REMAINING". Record this information for transfer to the new CONTROL BOARD. Press **STOP** or **CLEAR** to exit the SERVICE MENU.



#### Step 2

Raise the INCLINE of the Treadmill to allow easier access to the CONTROL BOARD.

#### Step 3

Turn the power OFF at the ON/OFF switch and by unplugging the machine at the electrical outlet.

#### Step 4

Use a standard screwdriver to "pop" the three PLASTIC RIVETS holding the CONTROL BOARD SHELF in place. Pull the SHELF down and towards you to lower it on its hinges.

#### Step 5

To prevent damage to the CONTROL BOARD, ground yourself to the machine with a disposable ANTI-STATIC STRAP.

(Continued)

# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## How To... REMOVE AND REPLACE THE CONTROL (CPU) BOARD (Continued)

**Tools Required:** Standard screwdriver

### Step 6

Disconnect the seven CONNECTORS from the worn CONTROL BOARD, taking note of their locations.

### Step 7

With a standard screwdriver, loosen and remove the six SCREWS from the CONTROL BOARD and remove the BOARD and BOARD SPACERS.

### Step 8

While holding the new CONTROL BOARD in place, reinsert the six SCREWS and BOARD SPACERS and tighten with a standard screwdriver.

### Step 9

Reconnect all seven CONNECTORS to the new CONTROL BOARD. Slide the CONTROL BOARD SHELF in place and push up on the three PLASTIC RIVETS, snapping them in place.

### Step 10

To lower the unit, plug the LINE CORD into the electrical outlet and power unit ON at the ON/OFF switch. Press the START key, when the unit is back at a zero percent incline, press the CLEAR key.

### Step 11

Find the new CONTROL BOARD software version by pressing **919, ENTER**. Press the Random and Fit Test Program lights to **ON**. The DISPLAY will scroll through the stats, note the control and logic versions. Refer to chart for code combination needed to reset the WAX DELAY and ENTER wax counts recorded in step 1.

**NOTE: THE WAX DELAY AND WAX COUNT INFORMATION IS VITAL FOR PROPER OPERATION AND LIFE OF THE STRIDING BELT AND DECK.**

MODEL TR9500HR	REPLACE BELT AND DECK		REPLACE CPU	REFILL WAX BAG	TO FIRE WAX PUMP
*Software Version	Reset Stats	Turn Wax Delay ON	Turn Wax Delay OFF		Service only
control 14.9 or earlier  logic 13.0 or earlier	Press 101, ENTER. Hill, Random, Manual, and Fit Test program lights ON. Press #1 key, then CLEAR to exit.	Press 101, ENTER. Hill, Random, and Fit Test program lights ON. (Display will scroll through to WAX DELAY OFF) Press Speed (up or down) key to toggle WAX DELAY ON.	Press 101, ENTER. Hill, Random, and Fit Test program lights ON. (Display will scroll through to WAX DELAY ON) Press Speed (up or down) key to toggle WAX DELAY OFF.	Press 125, ENTER Display will read "FILL WAXER FULL" Press ENTER.	Press 919, ENTER Fit Test program light ON, ENTER
control 15.0 & later  logic 15.0 & later	DO NOT CLEAR STATS	Press 8228, ENTER. Press #1 New Belt/Deck Press #2 New CPU, Press #3 Belt/Deck/CPU. If #2 or #3 are used enter **previous Wax Counts.	Press 8228, ENTER. Press #1 New Belt/Deck Press #2 New CPU, Press #3 Belt/Deck/CPU. If #2 or #3 are used, enter **previous Wax Counts.	Press 5125, ENTER (Display will read) "FILL WAXER FULL" Press ENTER.	Press 7373, ENTER
* To Find Software Version Press 919, ENTER. Random and Fit Test Program lights ON. Display will scroll through to control and logic.					
** To Find Previous Wax Counts Press 919, ENTER. Fit Test Program light ON.					
*** Previous Wax Counts must be entered manually. Diagnostic 919, ENTER. Unplug wax pump and fire pump until count is correct.					
<b>NOTE:</b> Treadmills with software earlier then 15.0 control and logic. To get the wax count correct, go into the diagnostics, unplug wax pump at wax pump connection and manually reset wax counts. Or refill wax and reset stats to 100% FULL.					

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To...REMOVE AND REPLACE THE LIFT ACTUATOR**

**Tools Required:** Hex key wrench set, socket and ratchet set

**IMPORTANT: DO NOT TURN OR CHANGE THE CURRENT SETTING OF THE LIFT ACTUATOR NUT FROM THE FACTORY PRESET AND TAPED POSITION IN WHICH IT WAS RECEIVED.**

#### **Step 1**

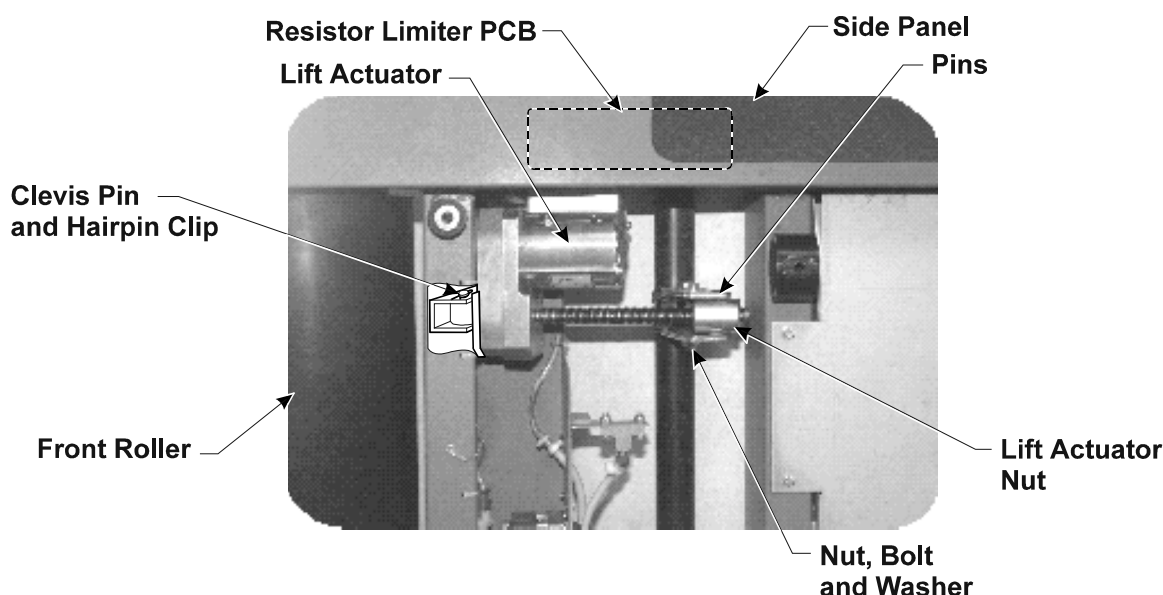
Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

#### **Step 2**

Remove the DECK (See "How To..." ) and STRIDING BELT (See "How To..." ).

#### **Step 3**

Disconnect the large LIFT ACTUATOR NUT from the pins holding it to the BRACKETS by removing the upper NUT, BOLT and WASHER and loosening, but not removing, the lower one.



#### **Step 4**

Remove the HAIRPIN CLIP and CLEVIS PIN securing the unthreaded end of the LIFT ACTUATOR to the FRAME.

#### **Step 5**

Unplug the LIFT ACTUATOR from the WIRE HARNESS ( or RESISTOR LIMITER PCB, if so equipped ) and remove the unit from the machine.

#### **Step 6**

Install a RESISTOR LIMITER PCB (if so equipped) by plugging the corresponding CONNECTOR into the WIRE HARNESS. Tuck the RESISTOR LIMITER PCB against the SIDE PANEL of the unit and secure it safely into position against the FRAME with WIRE TIES.

#### **Step 7**

Locate the new LIFT ACTUATOR into position and install the *NEW* CLEVIS PIN and HAIRPIN CLIP. Plug the CONNECTOR from the LIFT ACTUATOR WIRE HARNESS into the RESISTOR LIMITER PCB.

( Continued )

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To...REMOVE AND REPLACE THE LIFT ACTUATOR ( Continued )

**ATTENTION: THE LIFT ACTUATOR NUT IS PRESET AND TAPED INTO POSITION AT THE FACTORY FOR EASE OF ASSEMBLY. FOLLOW STEPS 8, 9 AND 10 ONLY IF THE LIFT MOTOR NUT WAS ROTATED FROM ITS PRESET POSITION. FOR NORMAL ASSEMBLY CONDITIONS PROCEED NOW TO STEP 11.**

#### Step 8

With the help of an assistant, tilt the Treadmill on to its side. Turn the power ON by plugging the machine into a wall outlet and then at the MAIN SWITCH. Enter into the SERVICE MENU by pressing 919, ENTER (MANUAL, 919, ENTER if connected to Lifecenter). Press INCLINE DOWN to take the Treadmill to its lowest position of 0%.

#### Step 9

Turn the power OFF at the MAIN SWITCH and then by unplugging the machine at the wall outlet.

#### Step 10

Have an assistant press the LIFT FRAME ASSEMBLY tightly against the RUBBER STOPS mounted on the bottom of the Treadmill FRAME. Check to see that the PINS of the LIFT ACTUATOR NUT BRACKETS are as centered as possible on the slot of the LIFT ACTUATOR NUT. If the PINS are not centered, turn the LIFT ACTUATOR NUT on the threaded shaft until they are.

#### Step 11

Check to insure that the PLASTIC WASHERS are located in place between the BRACKET PINS and the LIFT ACTUATOR NUT. Reinstall the BOLT, WASHER and NUT which were removed from the upper hole of the LIFT ACTUATOR NUT BRACKET and retighten the lower one to secure the LIFT ACTUATOR NUT in place.

#### Step 12

Reinstall the DECK and STRIDING BELT to return the unit to its original operating condition.

**NOTE: DO NOT OVERTIGHTEN THE BOLTS. THE LIFT ACTUATOR NUT SHOULD BE ABLE TO MOVE WITHIN THE BRACKETS IF PROPERLY INSTALLED.**

#### Step 13

Turn the power ON by plugging the unit into an electrical outlet and then at the MAIN SWITCH. The unit is now ready to return to operation.

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To... REMOVE AND REPLACE THE DRIVE MOTOR**

**Tools Required:** Socket and ratchet set, adjustable wrench, torque wrench, belt tension gauge

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#### **Step 1**

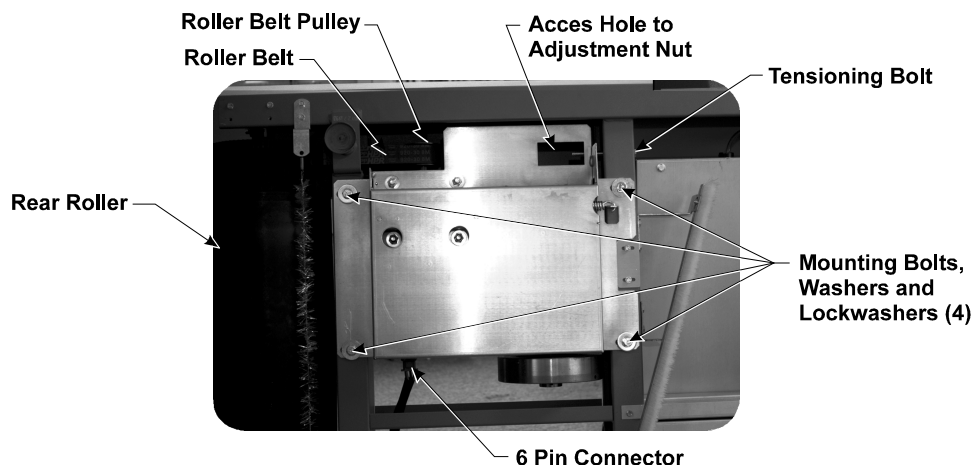
Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

#### **Step 2**

Remove the STRIDING BELT (See "How To..."). Leave the machine leaning on its left side.

#### **Step 3**

Disconnect the 6-PIN CONNECTOR leading to the worn DRIVE MOTOR from the MOTOR CONTROLLER.



**NOTE: IN THE NEXT STEP YOU WILL ONLY LOOSEN THE DRIVE MOTOR ASSEMBLY MOUNTING BOLTS. YOU WILL REMOVE THEM IN STEP 7.**

#### **Step 4**

Use a socket and ratchet wrench to loosen the four DRIVE MOTOR MOUNTING BOLTS.

#### **Step 5**

To remove the worn DRIVE MOTOR you must first reduce the tension on the ROLLER BELT by removing the ADJUSTMENT NUT, BOLT and WASHER.

#### **Step 6**

Slide the DRIVE MOTOR ASSEMBLY towards the REAR ROLLER and loop the ROLLER BELT off the DRIVE MOTOR SPROCKET.

#### **Step 7**

Remove the lower two MOUNTING BOLTS and four WASHERS first, then remove the two UPPER MOUNTING BOLTS and four WASHERS to completely remove the worn DRIVE MOTOR ASSEMBLY.

#### **Step 8**

Place the new DRIVE MOTOR ASSEMBLY into position and install the four MOUNTING BOLTS and eight WASHERS.

**NOTE: DO NOT TIGHTEN THESE BOLTS YET BECAUSE THE ADJUSTMENT BOLT, NUT AND WASHER MUST BE REINSTALLED FIRST.**

#### **Step 9**

Reconnect the 6-PIN CONNECTOR.

*Continued*

***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***  
**How To... REMOVE AND REPLACE THE DRIVE MOTOR (Continued)**

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**Step 10**

Place the ROLLER BELT over the DRIVE MOTOR SPROCKET. Reinstall the ADJUSTMENT BOLT, NUT and WASHER, but do not overtighten as the ROLLER BELT must still be properly tensioned.

**Step 11**

Reinstall the STRIDING BELT and set the proper tension as demonstrated in the STRIDING BELT instruction. Once the STRIDING BELT has been properly tensioned, tighten the ADJUSTMENT BOLT on the DRIVE MOTOR ASSEMBLY with a wrench to a ROLLER BELT tension of 80 ft./lbs.

**Step 12**

Once the ROLLER BELT has been properly tensioned, tighten the four MOUNTING BOLTS on the new DRIVE MOTOR to a torque of 28-30 ft./lbs.

**Step 13**

Complete the installation of the FRAME CAPS and the FRONT AXLE. The unit is now ready for use.



# How To... REMOVE AND REPLACE THE MOTOR CONTROLLER

**Tools Required:** Standard screwdriver, socket and ratchet set

---

## Step 1

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

## Step 2

With the help of another person, **slowly** tilt the unit on its left side.

## Step 3

Ground yourself to the machine. Connect a disposable grounding strap to the ANTI-STATIC CORD BRACKET.

## Step 4

With a socket and ratchet wrench, loosen and remove the seven **SCREWS** securing the faulty **MOTOR CONTROLLER** in place.

## Step 5

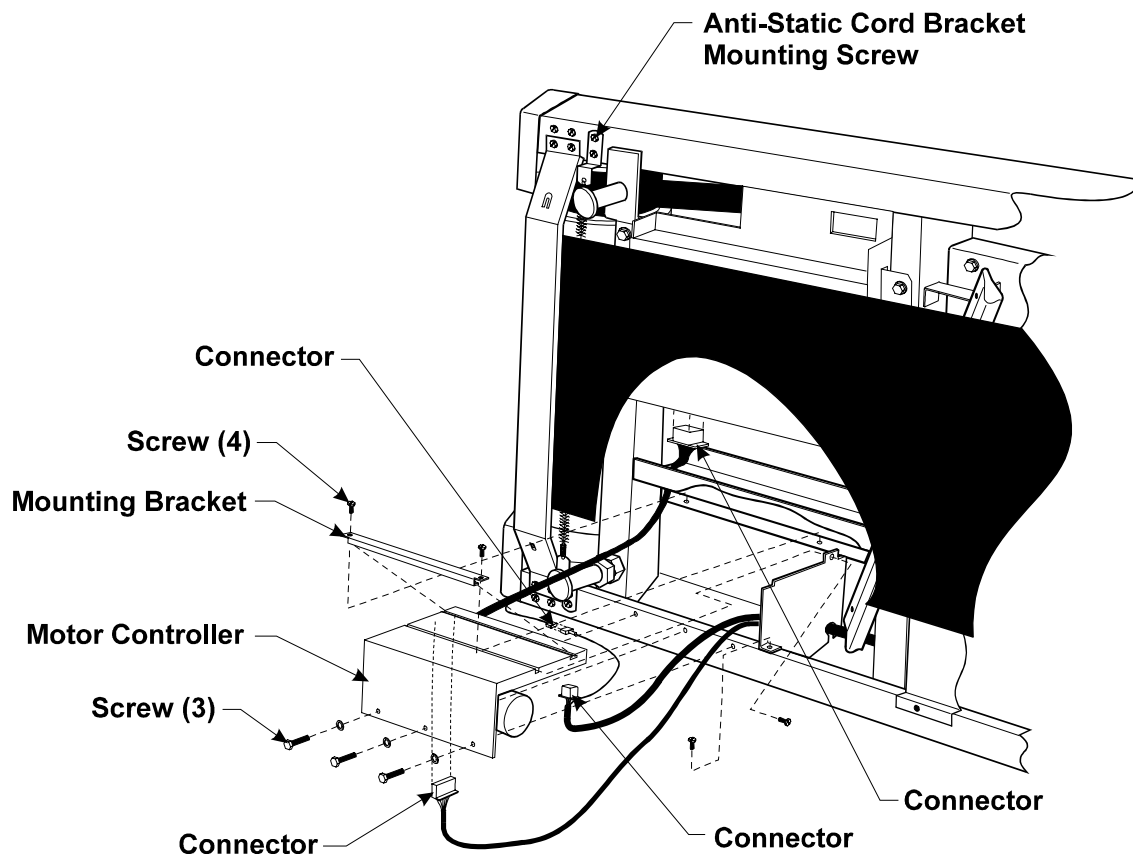
Disconnect the four **CONNECTORS** from the malfunctioning **MOTOR CONTROLLER** and remove it from the machine.

## Step 6

Place the new **MOTOR CONTROLLER** in its place and reconnect the three **CONNECTORS**.

## Step 7

Reverse Steps 1 through 4 to return all parts to their proper positions.



# Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

## How To... REMOVE AND REPLACE THE INDUCTOR ON THE EMERSON MOTOR CONTROLLER

**Tools Required:** Phillips screwdriver, 5/16" wrench, scribe

### Step 1

Turn the power **OFF** at the **ON/OFF** switch and then unplug the unit from the electrical outlet.

### Step 2

Remove the MOTOR CONTROLLER (See "How To...").

### Step 3

Scribe the feet location of the INDUCTOR on the BOTTOM PLATE to aid in positioning the new one.

### Step 4

Carefully, hold the TERMINAL ENDS and in a side-to-side motion disconnect the 4 INDUCTOR TERMINALS and the 2 CAPACITOR TERMINALS from the P.C. BOARD.

### Step 5

Remove the four SCREWS securing the BOTTOM PLATE to the HEAT SINK. Remove the four MOUNTING SCREWS securing the worn INDUCTOR to the BOTTOM PLATE and discard the worn INDUCTOR.

### Step 6

Align the new INDUCTOR with the scribe lines made earlier on the BOTTOM PLATE. Reinstall the four MOUNTING SCREWS to secure the new INDUCTOR to the PLATE and reassemble the PLATE to the HEAT SINK.

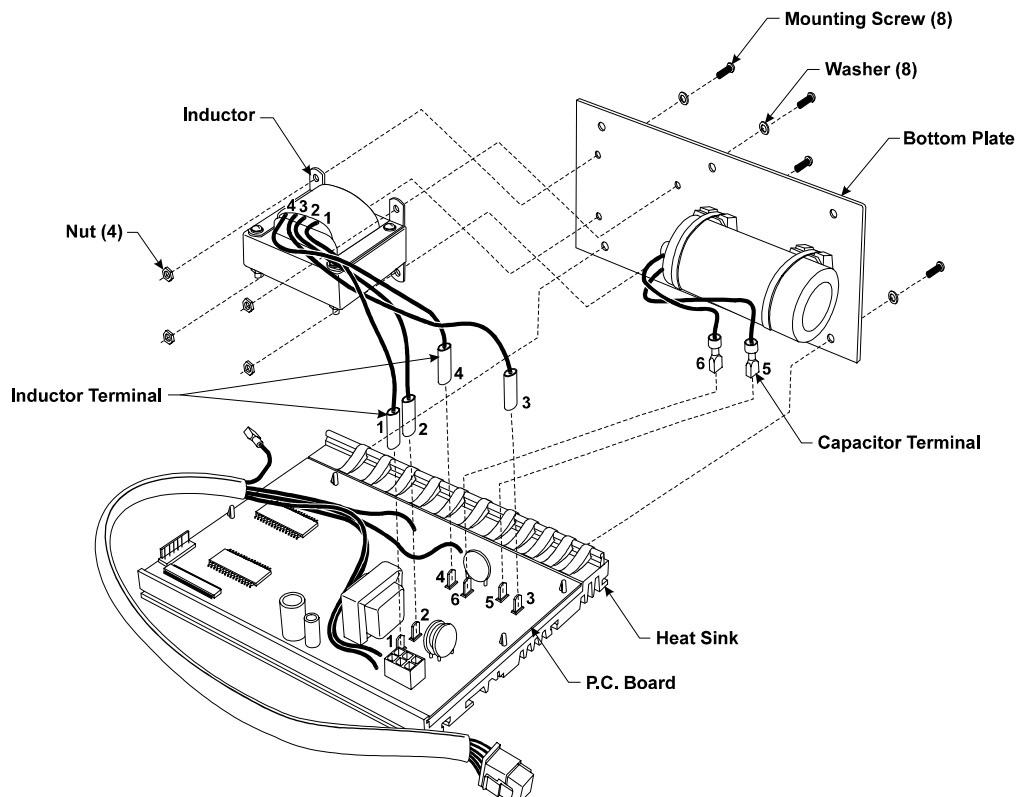
**NOTE: WHEN REASSEMBLING THE TWO PIECES BE VERY CAREFUL NOT TO STRIP THE THREADED SLOTS IN THE ALUMINUM HEAT SINK.**

### Step 7

Connect the 4 INDUCTOR WIRES (numbered 1 through 4) to the locations E1, E2, E3, and E4 respectively on the P.C. BOARD.

### Step 8

Reconnect the BLACK WIRE from the CAPACITOR to location E6 and the RED WIRE to location E5 on the P.C. BOARD. The MOTOR CONTROLLER is now ready to be reinstalled in the treadmill by reversing Steps 1 and 2.



## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

### How To...ADJUST AND TENSION THE STRIDING BELT

**Tools Required:** Hex key wrench set, socket and ratchet wrench set

**NOTE: IT IS EXTREMELY IMPORTANT THAT THE TREADMILL LEVELING LEGS BE CORRECTLY ADJUSTED PRIOR TO ANY TRACKING ADJUSTMENTS. SEE THE LEVELING INSTRUCTIONS IN THE OPERATION MANUAL. AN UNBALANCED UNIT MAY CAUSE STRIDING BELT MISALIGNMENT.**

*This instruction is to be followed when:*

- A. Tensioning the Existing Striding Belt**
- B. Re-tensioning the Existing Striding Belt after Removal**
- C. Replacing the Striding Belt with a New Striding Belt**

**CAUTION: DO NOT OVERTIGHTEN THE TENSIONING BOLTS WHILE MAKING BELT ADJUSTMENTS. OVERTIGHTENING OF BOLTS MAY OVER STRETCH AND DAMAGE STRIDING BELT AS WELL AS PLACE AN UNNECESSARY LOAD ON THE ROLLER BEARINGS.**

#### **A. Tensioning the Existing Striding Belt**

##### **Step 1**

Remove the user right FRONT FRAME CAP to access the belt tensioning bolt. Measure the distance from the NYLON BLOCK to the end of the slot or mark the decal at the BLOCKS' location.

##### **Step 2**

Enter the Manual Program and run unit for five minutes, the first two minutes at 5.0 m.p.h. (8 k.p.h.).

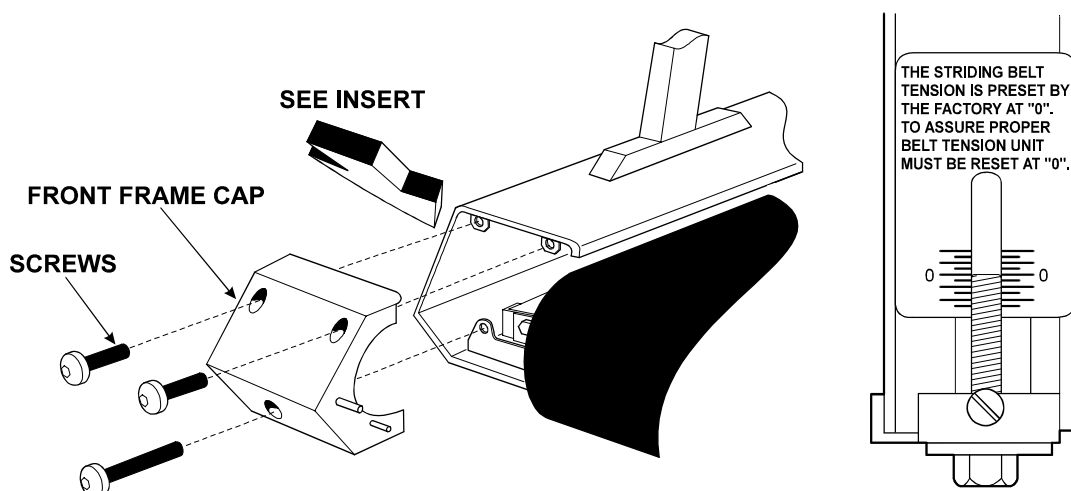
##### **Step 3**

Reduce the belt speed to 2.0 m.p.h. (3.2 k.p.h.). Tightly grasp the HANDRAILS and attempt to stall the STRIDING BELT. If STRIDING BELT slips, continue to Step 4. If STRIDING BELT does not slip, stop and replace FRAME CAPS.

##### **Step 4**

Stop the treadmill, turn the BELT TENSIONING BOLT 1/4 turn clockwise to tension, not to exceed 1 full turn. Repeat Steps 2 and 3 until belt no longer slips. Repeat adjustments until STRIDING BELT appears centered allowing machine to continue running for several minutes to observe if tracking remains stabilized.

**CAUTION: DO NOT OVERTIGHTEN THE BOLT. OVERTIGHTENING OF BOLT MAY OVER STRETCH AND DAMAGE STRIDING BELT.**(Continued)



Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills  
How To...ADJUST AND TENSION THE STRIDING BELT (Continued )

## ***B. Re-tensioning the existing Striding Belt after removal***

### **Step 1**

(Right FRONT FRAME CAP already removed). Measure the distance from the NYLON BLOCK to the end of slot or mark the decal at the BLOCKS' location.

### **Step 2**

Slacken the STRIDING BELT by turning the TENSIONING BOLT on the user right side of the unit counter clockwise.

### **Step 3**

Remove the DECK, RIGHT HANDRAIL and REAR ROLLER GUARD as necessary to service the machine. Set the STRIDING BELT aside while servicing.

### **Step 4**

Once service has been completed, reinstall the STRIDING BELT, DECK, RIGHT HANDRAIL and REAR ROLLER GUARD. Center the BELT over both the FRONT and REAR ROLLERS for proper aligning and tensioning.

### **Step 5**

Re-tension the STRIDING BELT with the TENSIONING BOLT (turning it clockwise) to 1/16" (0.4 cm) less of the original mark made in Step 1.

### **Step 6**

Check to make sure the TRACKING SENSOR SPRING is not captured on top of the STRIDING BELT.

### **Step 7**

Go to Section A, Steps 2 through 4 of the tensioning procedure.

***CAUTION: DO NOT OVERTIGHTEN THE BOLT. OVERTIGHTENING OF BOLT MAY OVER STRETCH AND DAMAGE STRIDING BELT.***

*(Continued)*

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To...ADJUST AND TENSION THE STRIDING BELT (Continued )**

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#### **C. Replacing the Striding Belt with a New Striding Belt**

##### **Step 1**

Remove the user RIGHT FRONT and RIGHT REAR FRAME CAPS. Measure the distance from the WHITE NYLON BLOCK to the end of slot or mark the decal at the BLOCKS' location.

##### **Step 2**

Relieving contact between the worn BELT and FRONT ROLLER will make BELT removal and replacement easier. Use the '**Service Mode**' in the DISPLAY CONSOLE to relieve the contact. Perform the following procedure to achieve this:

##### **Enter the Service Mode by:**

1. Pressing the **START** key once.
2. Pressing the **CLEAR** key twice.
3. Pressing **9-1-9** on the numeric keypad.  
(**MANUAL, 9-1-9** if connected to Lifecenter)
4. Pressing the **START** key.
5. Pressing the **RANDOM** key
6. Pressing the **MANUAL** key.

This will activate the **Manual Tracking Program** and the L.E.D. will read "TM" for TRACKING MANUALLY.

**CAUTION: YOU ARE IN THE SERVICE MODE PROGRAM. ONLY PERFORM THE STEPS MENTIONED TO AVOID CHANGING OTHER PROGRAMS.**

##### **Step 3**

Press the **INCLINE DOWN** key to activate the TRACKING MOTOR, drawing the left side of the FRONT ROLLER inward. Hold the key down for four minutes as indicated in the TIME window.

##### **Step 4**

Slacken the STRIDING BELT by turning the TENSIONING BOLT on user right side of unit counter clockwise.

##### **Step 5**

Remove the RIGHT HANDRAIL and REAR ROLLER GUARD. The STRIDING BELT can now be removed and replaced.

##### **Step 6**

When installing the new STRIDING BELT, it must be determined in which direction the BELT will be positioned to assure that it rotates in the proper direction for which it was designed. Follow this three step cross-checking approach to insure the STRIDING BELT is being installed properly:

1. **Check that the arrows stamped on the underside of the STRIDING BELT point in the direction of BELT rotation.**
2. **If the STRIDING BELT bears the Life Fitness logo, it should be installed so it is readable to a person using the Treadmill.**
3. **Find the seam on the underside of the STRIDING BELT. Place your thumb on the top of the BELT and your forefinger on the bottom of the BELT at the seam. You will notice, on the top face of the BELT, a shorter and longer raised edge on either side of the seam. The shorter raised edge should always face towards the front of the Treadmill.**

*(Continued)*

## **Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**

### **How To...ADJUST AND TENSION THE STRIDING BELT (Continued )**

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#### **Step 7**

Maneuver the new STRIDING BELT over the STATIONARY LEG and onto the ROLLERS. Position the new BELT as close to the center of both the FRONT and REAR ROLLER as possible. The unit will automatically track and center the STRIDING BELT later.

#### **Step 8**

Check to make sure the TRACKING SENSOR SPRING is not captured on top of the STRIDING BELT.

#### **Step 9**

Reinstall the RIGHT HANDRAIL and REAR ROLLER GUARD. The unit must be set upright before continuing.

#### **Step 10**

Re-tension the STRIDING BELT with the TENSIONING BOLT (turning it clockwise) to 1/8" (0.8 cm) less of the original mark made in Section C, Step 1.

#### **Step 11**

The Lifeslide treadmill is now ready to be plugged in and turned on, but not ready for use. The STRIDING BELT must be properly centered using the '**Service Mode**' for BELT TRACKING.

#### **Enter the Service Mode by:**

1. Pressing the **START** key once.
2. Pressing the **CLEAR** key twice.
3. Pressing **9-1-9** on the numeric keypad.  
(**MANUAL, 9-1-9** if connected to Lifecenter)
4. Pressing the **START** key.
5. Pressing the **RANDOM** key
6. Pressing the **MANUAL** key.

This will activate the **Manual Tracking Program** and the L.E.D. will read "**TM**" for TRACKING MANUALLY.

**CAUTION: YOU ARE IN THE SERVICE MODE PROGRAM. ONLY PERFORM THE STEPS MENTIONED TO AVOID CHANGING OTHER PROGRAMS.**

#### **Step 12**

Press the **INCLINE UP** key to activate the TRACKING MOTOR moving the left side of the FRONT ROLLER outward. Hold this key down for one minute as indicated in the time window.

#### **Step 13**

Enter a Manual Program and run unit for five minutes, the first two minutes at 2.0 m.p.h. (3.2 k.p.h.) and let TRACKING MOTOR adjust and center STRIDING BELT.

#### **Step 14**

With the BELT SPEED at 2.0 m.p.h. (3.2 k.p.h.), tightly grasp the HANDRAILS and attempt to stall the STRIDING BELT. If STRIDING BELT slips, continue to Step 15. If STRIDING BELT does not slip, stop and replace FRONT and REAR FRAME CAPS.

#### **Step 15**

Stop the treadmill, turn the BELT TENSIONING BOLT 1/4 turn clockwise to tension, not to exceed 1 full turn. Allow TRACKING MOTOR time to adjust and center STRIDING BELT after each adjustment of BELT TENSIONING BOLT before attempting to stall the STRIDING BELT. Repeat Steps 13 and 14 until STRIDING BELT no longer slips. Replace FRAME CAPS.

**CAUTION: DO NOT OVERTIGHTEN THE BOLT. OVERTIGHTENING OF BOLT MAY OVER STRETCH AND DAMAGE STRIDING BELT.**

***Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills***

**NOTES:**

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## PARTS IDENTIFICATION and WIRING BLOCK DIAGRAMS

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*Within Section IV, you will find a parts listing and exploded views of the treadmill to make it as quick and easy as possible to identify what is a replaceable part. When ordering parts, call the toll free number to Life Fitness After Market Services provided on the Introduction page of this Manual, or make a copy of the Order Form provided in Section V and order by FAX.*



*Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills*

## PARTS IDENTIFICATION

ITEM	SUB-ASS'Y	DESCRIPTION	PART NUMBERS COMMON TO MODEL 9500HR	PART NUMBER EXCLUSIVE TO TELEMETRY MODELS
1		END CAP WITH PINS ASS'Y: RT	AK26-00328-0000	AK26-00464-0001
2		END CAP WITH PINS ASS'Y: LT	AK26-00329-0000	AK26-00464-0002
3		REAR END CAP RT	AK26-00326-0000	AK26-00463-0001
4		REAR END CAP LT	AK26-00327-0000	AK26-00463-0002
5		DECK	OK26-01201-0003	
6		PINCH GUARD	OK26-01539-0000	
7		BOTTOM GUARD: FRONT	OK26-01288-0000	OK26-02204-0000
8		LINE CORD LINE CORD (12 FEET)	0017-00003-0693 0017-00003-0743	
9		LINE CORD RETAINER	OK26-01723-0000	
10		CONTROL/LOGIC PROG.	A084-92014-A002	A084-92014-A006
11		REAR GUARD TINSEL ASS'Y	AK26-00367-0000	
	11A	TINSEL	OK26-01591-0000	
	11B	SPRING	OK26-01459-0000	
12		STRIDING BELT	OK26-02204-0001	
13		LIFT ACTUATOR ASS'Y	GK26-00002-0014	
	13A	NYLON WASHERS	0017-00104-0274	
	13B	COTTER PIN: .072X23	0017-00007-0208	
	13C	CLEVIS PIN: .375X26	0017-00007-0219	
14		HANDRAIL ENDCAP	OK26-01232-0000	OK26-01232-0001
15		CONTROLLER: EMERSON	GK26-00002-0003	GK26-00002-0034
16		CONSOLE ASS'Y (OVERLAY BEZEL)	SK26-00596-0001 AK26-00598-0001	SK26-00613-0001 AK26-00610-0001
17		DRIVE MOTOR ASS'Y	SK26-00408-0001	
	17A	DRIVE MOTOR BELT	OK26-01592-0000	
18		REAR ROLLER ASS'Y	AK26-00313-0000	
19		FRONT ROLLER ASS'Y	AK26-00312-0000	
20		TRACKING SENSOR ASS'Y	AK26-00409-0000	
21		WAX BAG ASS'Y	OK26-02044-0000	
22		WAX PUMP ASS'Y	AK26-00445-0000	
	22A	WAX TUBING 30 INCHES"	0017-00041-0817	
	22B	BRASS SPRAY TIP	0017-00009-0842	
23		DECK STIFFENER	OK26-02082-0000	
24		SHOCK ABSORBER	OK26-01350-0000	
25		DECK SCREWS (INNER)	0017-00101-1058	
26		DECK WASHERS (INNER)	0017-00104-0238	
27		DECK SCREWS (CORNER)	0017-00101-1046	
28		DECK WASHERS (CORNER)	0017-00104-0254	
29		LIFESPINGS	0017-00042-0805	
30		TRANSFORMER ASS'Y	AK26-00414-0000	
31		POWER ENTRY MODULE ASS'Y	AK26-00321-0005	
	31A	CIRCUIT BREAKER: .5 A	0017-00003-0687	
	31B	CIRCUIT BREAKER: 3A	0017-00003-0700	
	31C	ROCKER SW: DPST: 16A	0017-00032-0180	
32		LEG LEVELER WITH PAD	AK26-00424-0000	
	32A	FOOT PAD	OK26-02084-0000	
33		BELT CLEANING BRUSH KIT	GK26-00002-0026	
34		TRANSFORMER	AK26-00414-0000	
35		REAR ROLLER BELT	OK26-01421-0000	
36		NYLON SHAFT-END BLOCK (Threaded)	OK26-01314-0000	
37		TRACKING MOTOR	OK26-02025-0000	
38		HANDLEBAR ASS'Y W/ELECTRODES	AK26-00440-0000	
39		STOP SWITCH	FK26-00002-0041	
40		RESISTOR LIMITER PCB ASS'Y	GK26-00002-0018	

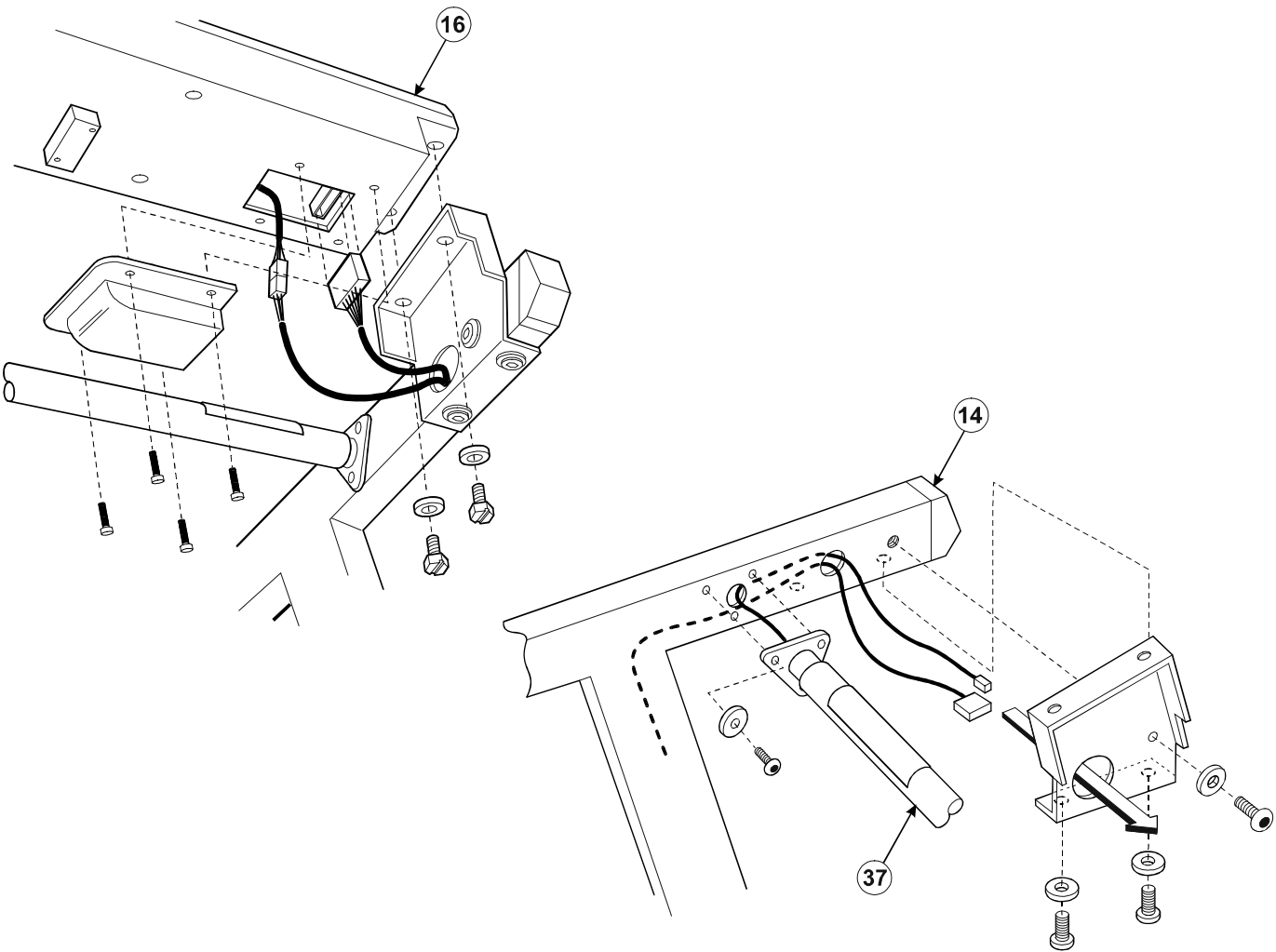
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Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills

# PARTS IDENTIFICATION ( Continued )

THE FOLLOWING ITEMS ARE AVAILABLE BUT NOT SHOWN:

	N/S	CBL ASS'Y: EMERSON INTERFACE	AK26-00295-0000	
	N/S	CBL ASS'Y: TRACK/HOME	AK26-00391-0000	
	N/S	CBL ASS'Y: DISP-CONS: CONTROL	AK26-00399-0000	
	N/S	WAX	GK26-00002-0035	
	N/S	CBL ASS'Y: STOP SWITCH	AK26-00407-0001	



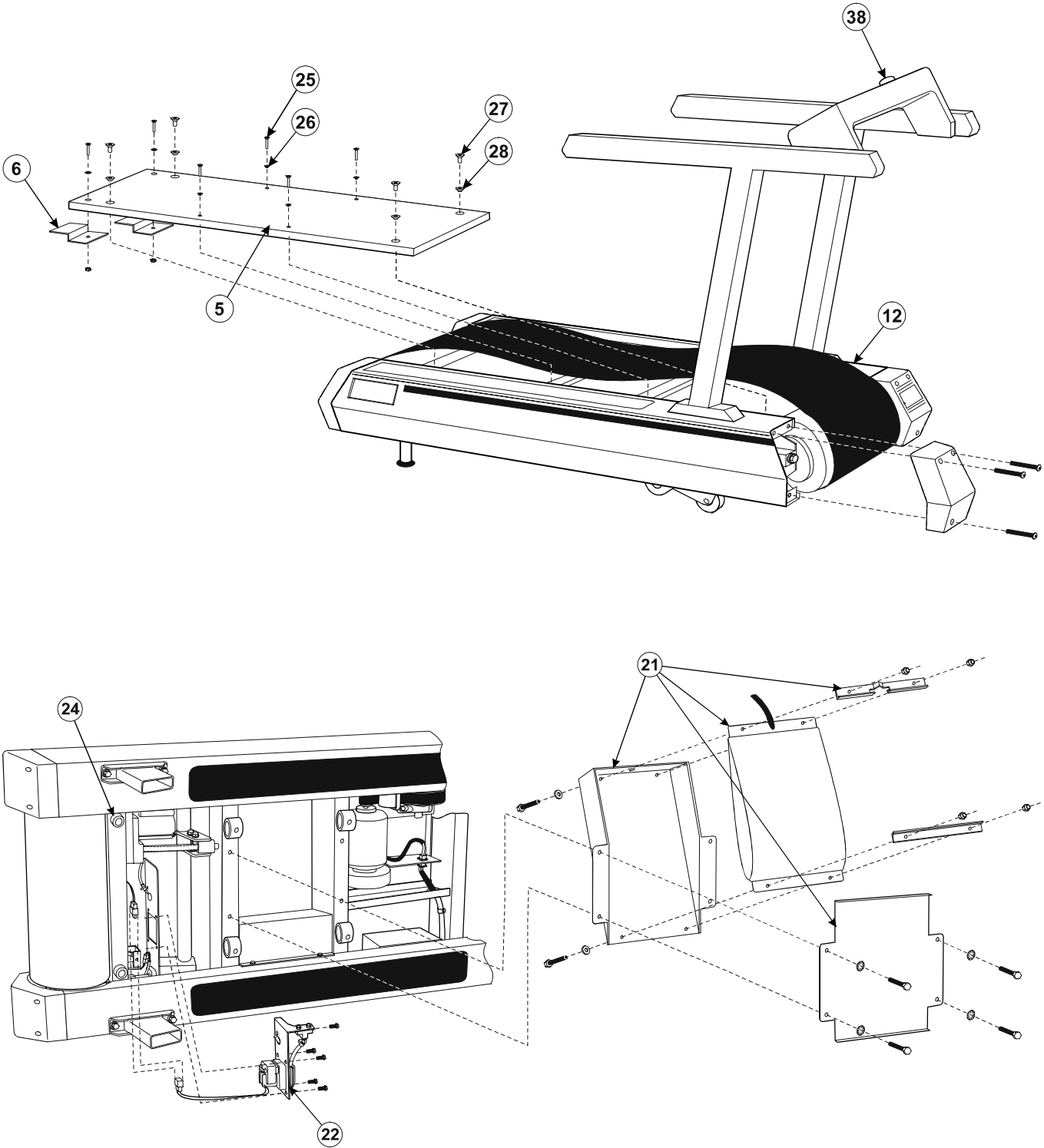
SECTION IV

(Continued)

Life Fitness Model 9500HR and Telemetry Equipped Treadmills

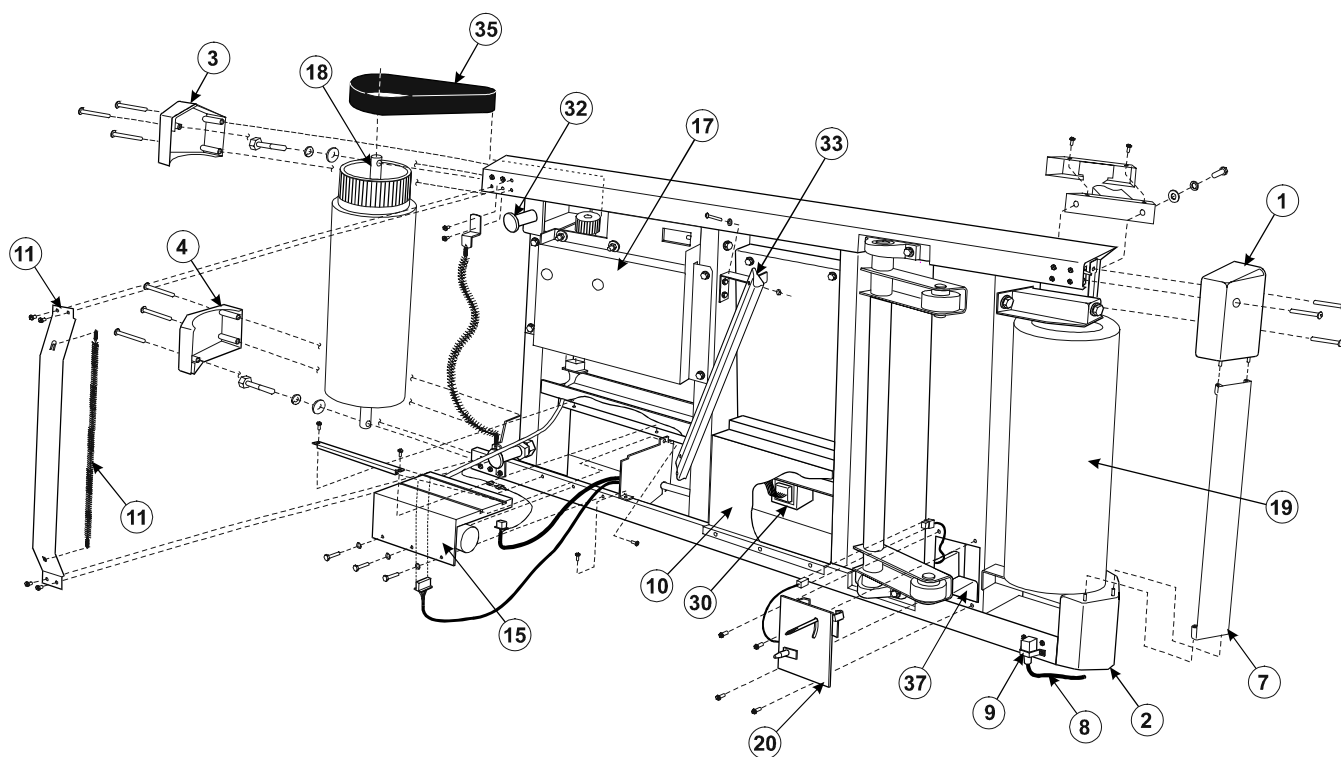
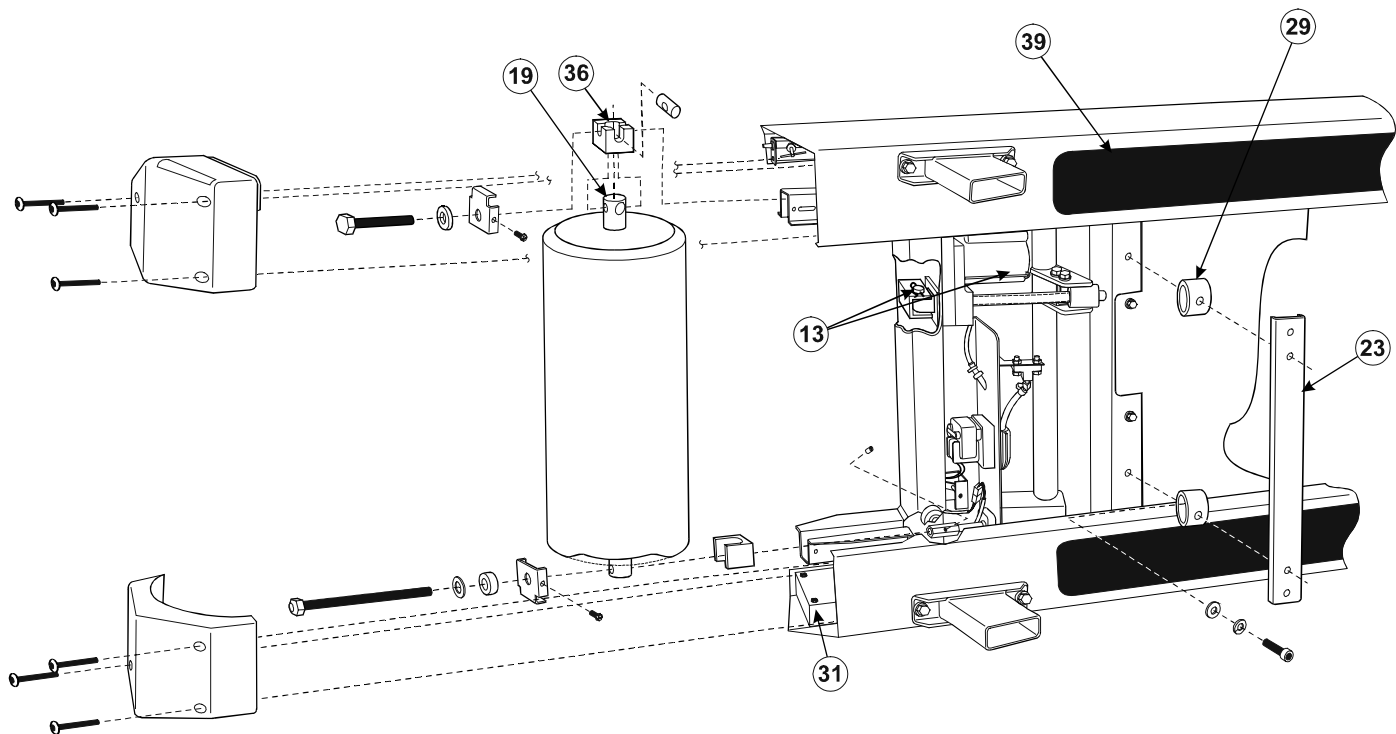
**PARTS DESCRIPTION ( Continued )**

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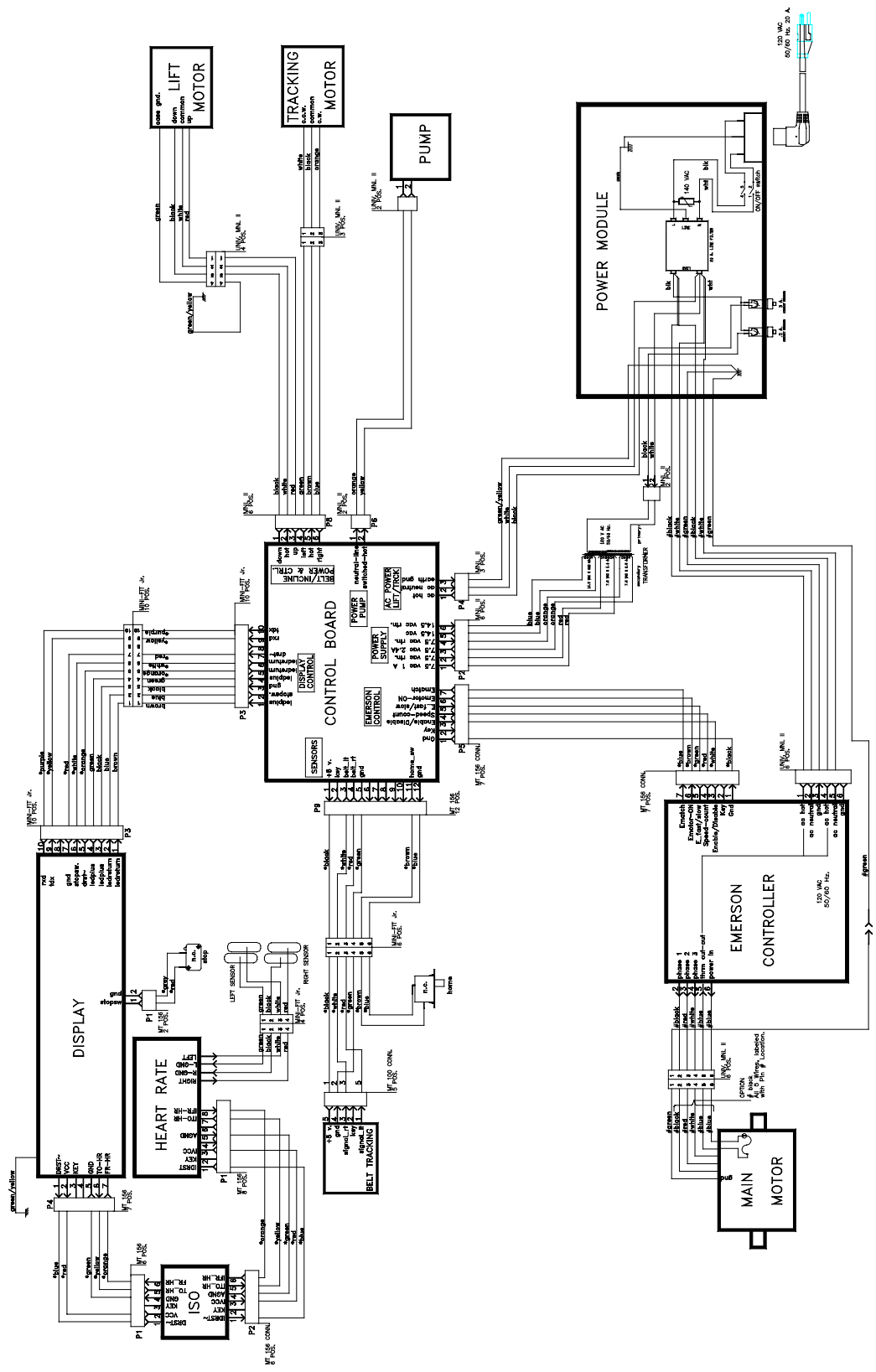
*Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills*  
**PARTS IDENTIFICATION ( Continued )**



**SECTION IV**

Life Fitness Model 9500 Series HR without Telemetry Equipped Treadmills

# WIRING BLOCK DIAGRAM

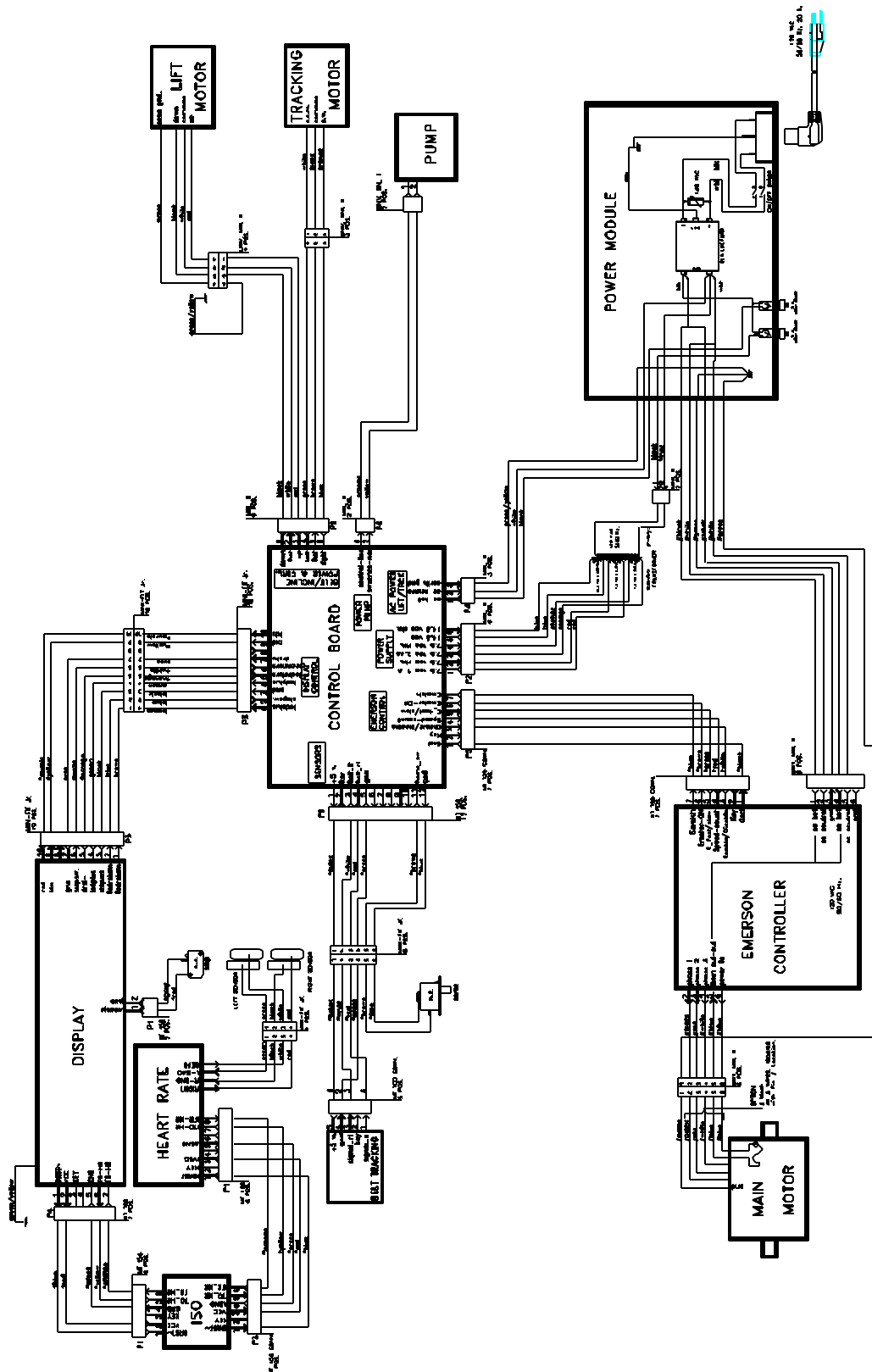




**NOTES:**

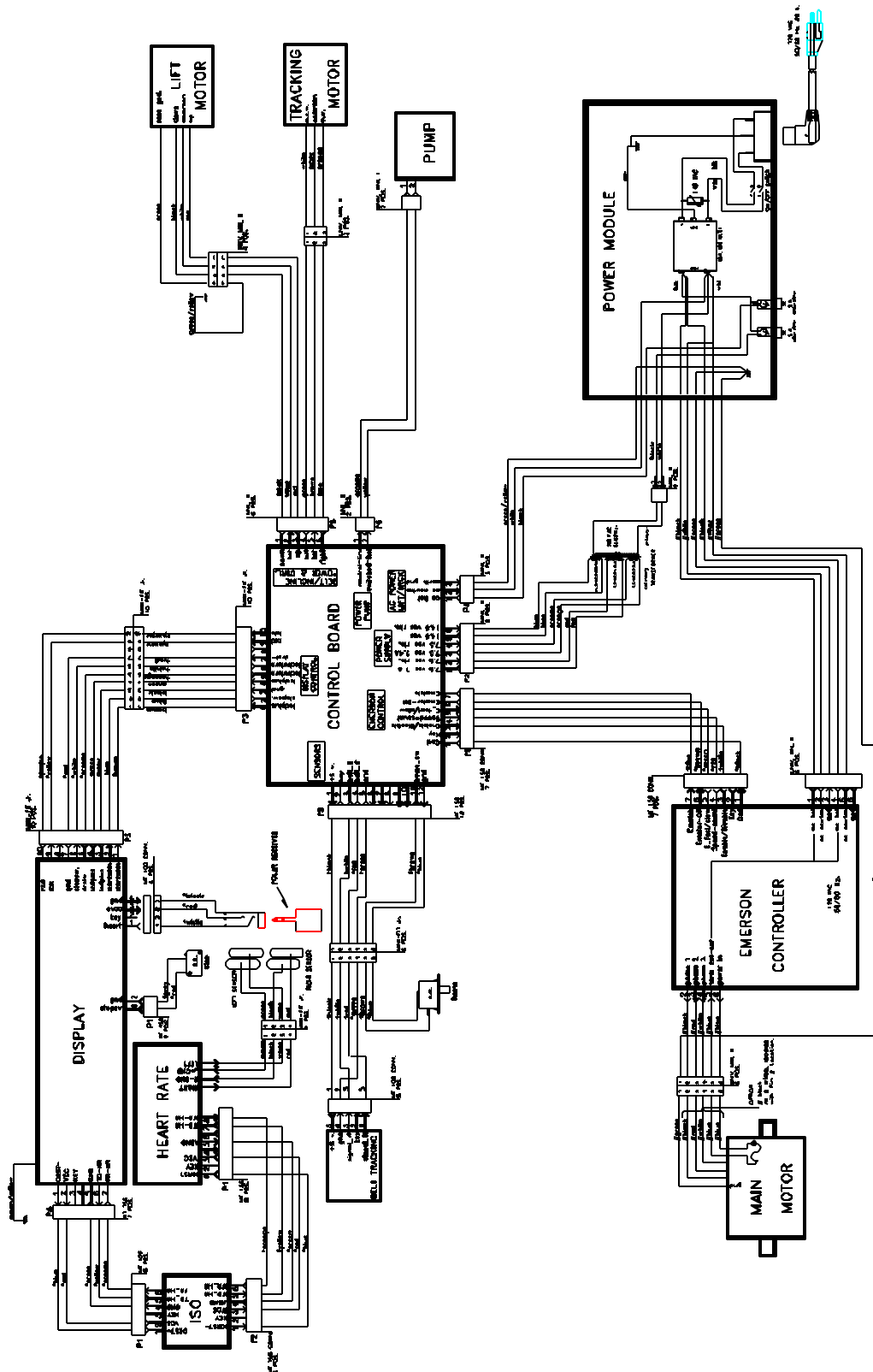
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Life Fitness Model 9500 Series HR without Telemetry Equipped Treadmills  
**WIRING BLOCK DIAGRAM**





Life Fitness Model 9500 Series HR with Telemetry Equipped Treadmills  
WIRING BLOCK DIAGRAM



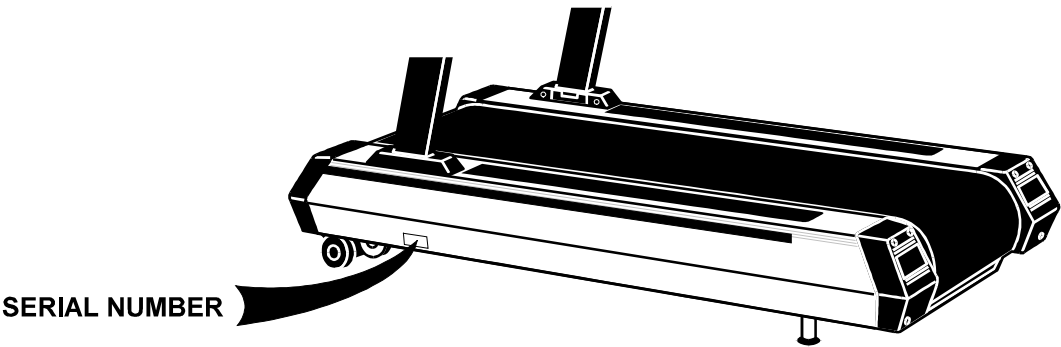
**Treadmill Model Identification**

MODEL 9500HR

MODEL 9500HR with Telemetry



**Serial Number Location**



## ESTIMATED REPAIR TIMES

DESCRIPTION	TIME IN MINS.
EMERSON CONTROLLER	30 MIN
CPU	30 MIN
TRACKING MOTOR	120 MIN *
LINE CORD	15 MIN
WAX FILLER KIT (INS)	15 MIN
DECK RUBBER MOUNTS (LORD) (4)	125 MIN *
DECK SPRING ELASTOMER (4)	125 MIN *
WALKING BELT (FLIP DECK)	90 MIN
DRIVE MOTOR ASSY	90 MIN
LIFT ASSY	120 MIN *
DISPLAY ASSY	15 MIN
ENTRY MODULE (POWER)	60 MIN
ON/OFF SWITCH	30 MIN
WAX PUMP ASSY	120 MIN *
ADJUSTABLE LEG PAD ASSY	15 MIN
LIMIT SWITCH	30 MIN
TINSEL-INSIDE	15 MIN
END CAP ALL 4	15 MIN
STOP SWITCH (ON DISPLAY)	30 MIN
BRUSH, BELT CLEANING	15 MIN
CABLE ASSY FRAME/CPU	30 MIN
CABLE ASSY DISPLAY/FRAME	30 MIN
HANDRAIL	15 MIN
BOTTOM FRONT GUARD	15 MIN
PINCH GUARD (REAR W/TINSEL)	15 MIN
BELT TRACKING SENSOR ASSY	30 MIN
DECK & BELT	90 MIN
FRONT ROLLER	120 MIN *
REAR ROLLER	120 MIN *
WAX BAG	120 MIN *
DRIVE ROLLER BELT	120 MIN *
DRIVE MOTOR ASSY BELT	120 MIN *
CIRCUIT BREAKER	30 MIN
CROSS BAR	30 MIN

\*90 min includes belt and deck removal

## Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills PREVENTIVE MAINTENANCE TIPS

ITEM	WEEKLY	MONTHLY	QUARTERLY	BI-ANNUAL	ANNUAL
Anti-Static Cords		INSPECT		REPLACE	
Console Mounting Bolts				INSPECT	
Frame	CLEAN			INSPECT	
Striding Belt ( Top )	CLEAN ( VACUUM )			INSPECT	
Brush				REPLACE	
Deck				INSPECT	
Power Cord		INSPECT			
Display Console	CLEAN	INSPECT			
Handlebar	CLEAN			INSPECT	
Handrail and Handlebar Bolts				INSPECT	
Rear Roller Belt			INSPECT		
Front Roller				INSPECT	
Rear Roller				INSPECT	
Stop Button	INSPECT				
Rear Roller Guard		CLEAN & INSPECT			
Tracking Spring		INSPECT			
V Belt				INSPECT	
Wax Ass'y Container			INSPECT		
Wax System Leaks				INSPECT	
Wax Nozzle	CLEAN & INSPECT				
Wax Refill					REPLACE

**Life Fitness Model 9500 Series HR and Telemetry Equipped Treadmills**  
**COMMUNICATING BY FAX**

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*If you would like to submit a parts order, or if you need help troubleshooting a problem, we have included, for your convenience, a FAX form on the following page. Simply make a copy (or copies) of the FAX sheet and fill in the necessary information. You may FAX us at any time, 24 hours a day, to either of the numbers shown. A Life Fitness service representative will process your order, or respond to your problem, as quickly as possible.*

## CUSTOMER SUPPORT SERVICES

☐ PARTS ORDER ( IF BOTH ) ☐ SALE  
☐ PRODUCT TROUBLESHOOTING PLEASE INDICATE ) ☐ WARRANTY

NAME:	CUSTOMER NO:	DATE:
PHONE:	FAX:	CONTACT NAME:

**METHOD OF SHIPMENT:**

1 DAY

☐ 2 DAY

☐ GROUND

## PARTS ORDER FORM

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY
1			
2			
3			
4			
5			
6			

## PRODUCT TROUBLESHOOTING

PRODUCT NAME:	SERIAL NO.
DETAILED DESCRIPTION OF PROBLEM:	
PRODUCT NAME:	SERIAL NO.
DETAILED DESCRIPTION OF PROBLEM:	

TIME RECEIVED:	TIME COMPLETED:	TECHNICIAN NAME:
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## CUSTOMER SUPPORT SERVICES

10601 W. Belmont Ave., Franklin Park IL 60131 PHONE (800) 351-3737 Toll Free or (847) 451-0036  
FAX (800) 216-8893 Toll Free or (847) 288-3702



**NOTES:**